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**STATIC PRESSURE DISTRIBUTIONS
ON VARIOUS BODIES OF REVOLUTION
AT MACH NUMBERS FROM 0.60 to 1.60**

M. S. Hartley and J. L. Jacocks

ARO, Inc.

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March 1968

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FOREWORD

The work reported herein was sponsored by Headquarters, Arnold Engineering Development Center (AEDC), Air Force Systems Command (AFSC), Arnold Air Force Station, Tennessee, under Program Element 6540223F.

The results of research presented were obtained by ARO, Inc. (a subsidiary of Sverdrup & Parcel and Associates, Inc.), contract operator of AEDC, AFSC, under Contract AF40 (600) - 1200. The research was conducted from September 27 to 30, 1967, under ARO Project No. PB2837, and the manuscript was submitted for publication on January 18, 1968.

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This technical report has been reviewed and is approved.

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ABSTRACT

An investigation was conducted in the Propulsion Wind Tunnel, Transonic (16T) to determine the static pressure distributions on various bodies of revolution. The nose shapes tested were 20-, 40-, and 60-deg (total-angle) cones, an ellipse, and an ogive. The data were obtained for various angles of pitch and yaw at Mach numbers from 0.60 to 1.60. Primarily these data will be used for the test section calibration of a new transonic wind tunnel with a 4-ft-square test section; consequently, the models were designed for 1-percent blockage in the 4-ft wind tunnel, making them 0.0625-percent blockage in Tunnel 16T. Despite their relatively small size in 16T, some wall effects were experienced between Mach numbers 0.95 and 1.05. Both above and below this Mach number range the data were found to be relatively free of wall effects. In the range from $M = 0.95$ to 1.05 attempts were made to reduce the wall effects by varying wall angle and test section pressure; however, no improvement was noted.

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NOMENCLATURE

d	Model base diameter, 5.416 in.
M_∞	Test section Mach number
p	Local static pressure, psfa
p_t	Tunnel stagnation pressure, psfa
Re/ℓ	Test section unit Reynolds number, ft^{-1}
x	Distance from model nose, in.
α	Model angle of attack, deg
θ_w	Test section wall angle (positive when walls are diverged), deg
λ_t	Test section pressure ratio
ψ	Model angle of yaw, deg

SECTION I INTRODUCTION

A new transonic wind tunnel with a 4-ft-square variable porosity wall test section has been constructed at the Arnold Engineering Development Center. The optimum tunnel parameters (wall angle, wall porosity, and tunnel pressure ratio) will be determined by noting the effects of the variables upon pressure distributions on various bodies of revolution. Models were designed for this calibration which would have a blockage ratio of model area to nozzle exit area of 1 percent. The nose shapes selected were a 20-deg (total angle) cone, a 40-deg cone, a 60-deg cone, an ellipse (ratio of major to minor diameters 2:1), and an ogive (ratio of length to diameter 4:1). These shapes were selected to provide a broad range of wave cancellation requirements for this new tunnel.

The interference-free pressure distributions on each of the models are required to optimize the tunnel parameters. Accordingly, tests were conducted in the Propulsion Wind Tunnel, Transonic (16T). Since the models were only 0.0625-percent blockage in 16T, the data were expected to be relatively free of wall effects. Interference-free data are available in Ref. 1 for a 0.008-percent blockage, 20-deg cone, and comparisons are given herein.

SECTION II APPARATUS

2.1 BASIC TUNNEL

Transonic 16T is a closed-circuit, continuous flow tunnel with a normal Mach number range from 0.55 to 1.60. It is capable of operation at stagnation pressures from approximately 100 to 4000 psfa and stagnation temperatures of approximately 90 to 125°F. The removable test section is 16 ft square and 40 ft long. A 9-ft tapered porosity section connects the two-dimensional, solid-plate, flexible nozzle to the porous wall test section. The test section walls have 60-deg inclined holes and a porosity of 6 percent. Plenum suction for 16T is provided by the Plenum Evacuation System (PES) with additional suction being available by opening diffuser flaps.

The location of 16T in the PWT complex is shown in Fig. 1. Additional information on 16T may be found in Ref. 2.

2.2 TEST APPARATUS

The bodies of revolution used during this investigation consisted of five different nose shapes utilizing a common cylindrical afterbody. Sketches of the models are shown in Fig. 2. The nose shapes tested were a 20-deg cone (total-angle), a 40-deg cone, a 60-deg cone, an ellipse (major diameter to minor diameter ratio of 2:1), and an ogive (length-to-diameter ratio 4:1). The model diameter was 5.416 in., giving a blockage ratio of 0.0625 percent at zero angle of attack. The maximum model length (with the 20-deg cone or the ogive on the afterbody) was approximately 70 in. Static orifices were provided to measure pressures in both the pitch and yaw planes simultaneously. Up to 100 orifices were available in the pitch plane, and up to 47 orifices were available in the yaw plane. The orifices were oriented such that with the model pitched nose-up both the pitch and yaw angles were positive. To facilitate data reduction the orifices were located to give even increments of x/d . An angle-of-attack transducer was mounted in the afterbody for determining absolute model angle of attack.

A sketch of a typical model installation in 16T is shown in Fig. 3, and a model installation photograph is presented in Fig. 4. A photograph of all the models is shown in Fig. 5.

SECTION III PROCEDURE

3.1 TEST PROCEDURE

All five models were tested through the Mach number range from 0.6 to 1.6. The models were tested at angles of attack of 0, ± 4 , and ± 8 deg with the exception of the elliptical nose configuration where the angle-of-attack variations were limited to $\alpha = 0$ and ± 8 deg at Mach numbers from 0.9 to 1.3 and $\alpha = 0$ deg at the other Mach numbers.

Model pressures were measured with the standard 16T pressure system utilizing 5- and 15-psi self-balancing pressure transducers. Data were obtained at a nominal stagnation pressure of 2500 psfa up to a Mach number of 1.3, above which the pressure was reduced to 2200, 2000, and 1800 psfa for Mach numbers of 1.4, 1.5, and 1.6, respectively. However, for the 60-deg cone the stagnation pressure was maintained at 1500 psfa above Mach number 0.9. For all tests the stagnation temperature was maintained at 120°F.

3.2 DATA REDUCTION PROCEDURE

The ratios of the local static pressures to the tunnel stagnation pressure (p/p_t) were calculated on line using the PWT digital computer and on-line data system. Tables of these ratios were constructed off line using the PWT digital computer.

3.3 ACCURACY OF THE MEASUREMENTS

Based on a confidence level of 95 percent, the estimated errors in the data are as follows:

x/d :	± 0.002
p/p_t :	± 0.005
α, ψ :	± 1 percent of value

SECTION IV RESULTS AND DISCUSSION

The static pressure data obtained during this investigation are presented in Tables I through V as static pressure to tunnel stagnation pressure ratios. The data are given for model yaw and pitch angles of 0, ± 4 , and ± 8 deg where these data are available. The elliptical nose data were only obtained at α and $\psi = 0$ and ± 8 deg for Mach numbers from 0.9 to 1.3 and at α and $\psi = 0$ for the other Mach numbers. The pressure orifice planes were perpendicular and the models were only pitched; consequently, the α and ψ data were obtained simultaneously. In the tables it will be noted that at some model stations there will be two p/p_t values listed. Where this occurs, there are two diametrically opposed orifices. The first value listed is from the continuous row of orifices. With the model at angle of attack, the second value listed corresponds to a value at an opposing α (i.e., a value listed under $\alpha = 4$ actually is $\alpha = -4$). In general it was found that varying the model angle of attack only affected the pitch plane distributions on the nose and just behind the shoulder to any significant degree. The pitch plane distributions on the downstream portion of the afterbody were relatively unaffected. The yaw plane distributions were affected over the entire length of the model by the angle-of-attack variations.

The data in Tables I through V are relatively free of wall interference at all Mach numbers up to $M = 0.9$ and above $M = 1.10$. Between Mach numbers 0.95 and 1.05, there is some degree of wall interference in spite of the small blockage (0.0625 percent).

In Figs. 6 through 10 plots of the $\alpha = 0$ data for all models are presented. For comparison, data from Ref. 1 are also presented in Fig. 6 for a 0.008-percent blockage, 20-deg-cone model. In general, the two sets of data are in close agreement except near $M = 1.0$ where some wall interference effects exist in the present data. The wall interference effects upon the other models are evident by comparing the model afterbody pressures to the free-stream value, denoted by a hash mark at the margin of each figure. Attempts were made to eliminate the interference by varying wall angle (above $M = 1.0$) and test section pressure ratio (below $M = 1.0$). These attempts were based on the results of Ref. 3 where wall effects on a 1-percent blockage model were reduced by varying the test section conditions. During the present investigation, no significant improvements in the data were obtained as shown in Figs. 11 and 12. However, some change in the distribution was noted which substantiated the assumption that the disturbances were caused by the presence of the walls. The presence of the solid schlieren windows (note Figs. 3 and 4) in the side walls apparently did not affect the data significantly since the $\alpha = 0$ data compare quite well with the $\psi = 0$ data. The tunnel stagnation pressure level was varied to determine if slight Reynolds number variations would affect the data. As shown in Fig. 13, there was no discernible effect.

SECTION V CONCLUSIONS

Based on the results of this investigation the following conclusions are made:

1. The static pressures obtained are relatively interference free at Mach numbers up to 0.90 and above 1.10.
2. Varying test section pressure ratio and wall angle did not reduce the wall effects significantly between Mach numbers from 0.9 to 1.1.
3. Slight variations in the test section Reynolds number had no discernible effect upon the data.

REFERENCES

1. Estabrooks, Bruce B. "Wall-Interference Effects on Axisymmetric Bodies in Transonic Wind Tunnels." AEDC-TR-59-12 (AD216698), June 1959.

2. Test Facilities Handbook (Sixth Edition).
"Propulsion Wind Tunnel Facility, Vol. 5." Arnold
Engineering Development Center, November 1966.
3. Nichols, James H. "Determination of Optimum Operating
Parameters for the PWT 16-ft Transonic Circuit Utilizing
One-Percent Bodies of Revolution." AEDC-TN-59-100
(AD225362), September 1959.

APPENDIXES
I. ILLUSTRATIONS
II. TABLES

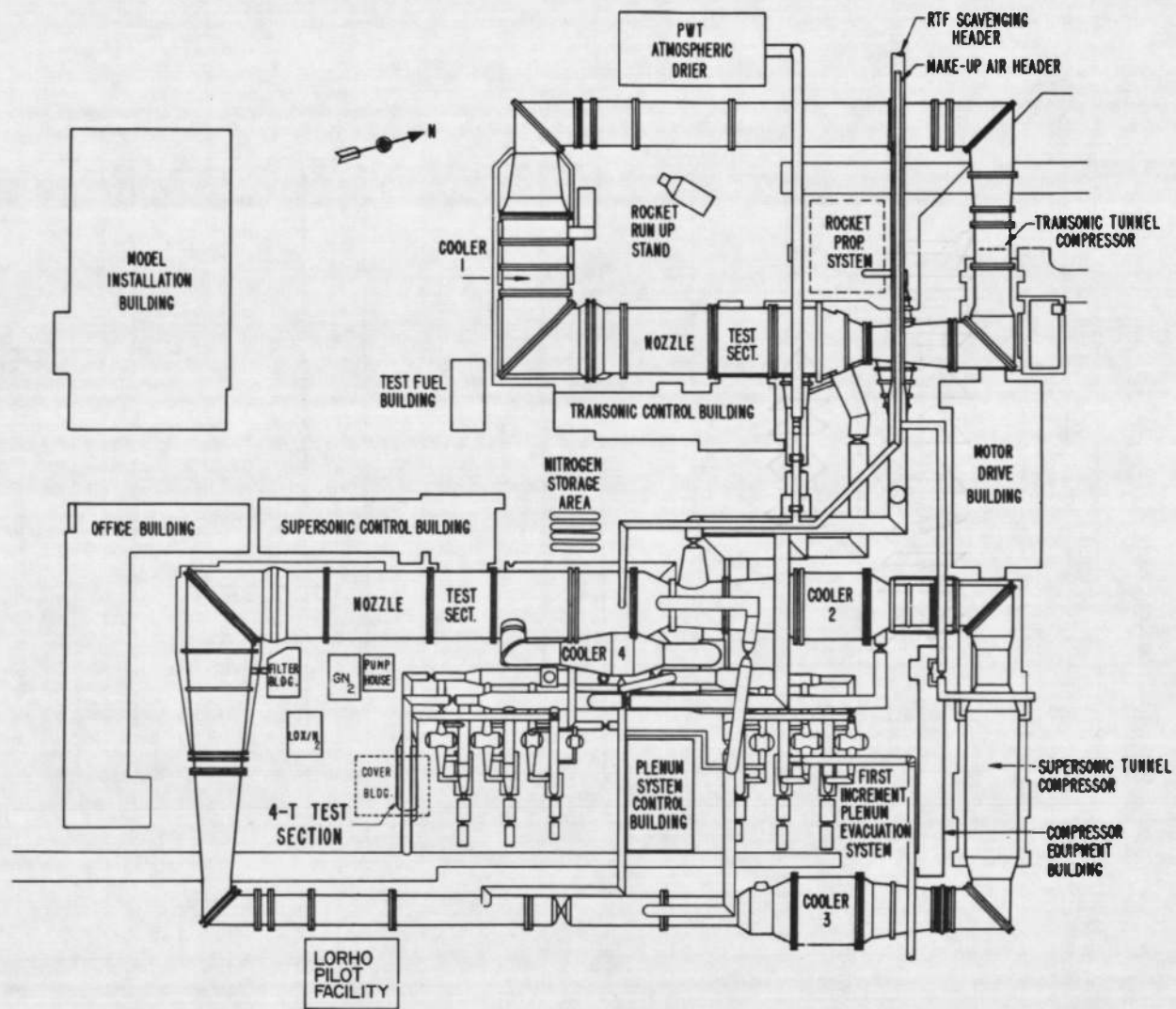


Fig. 1 Propulsion Wind Tunnel Facility

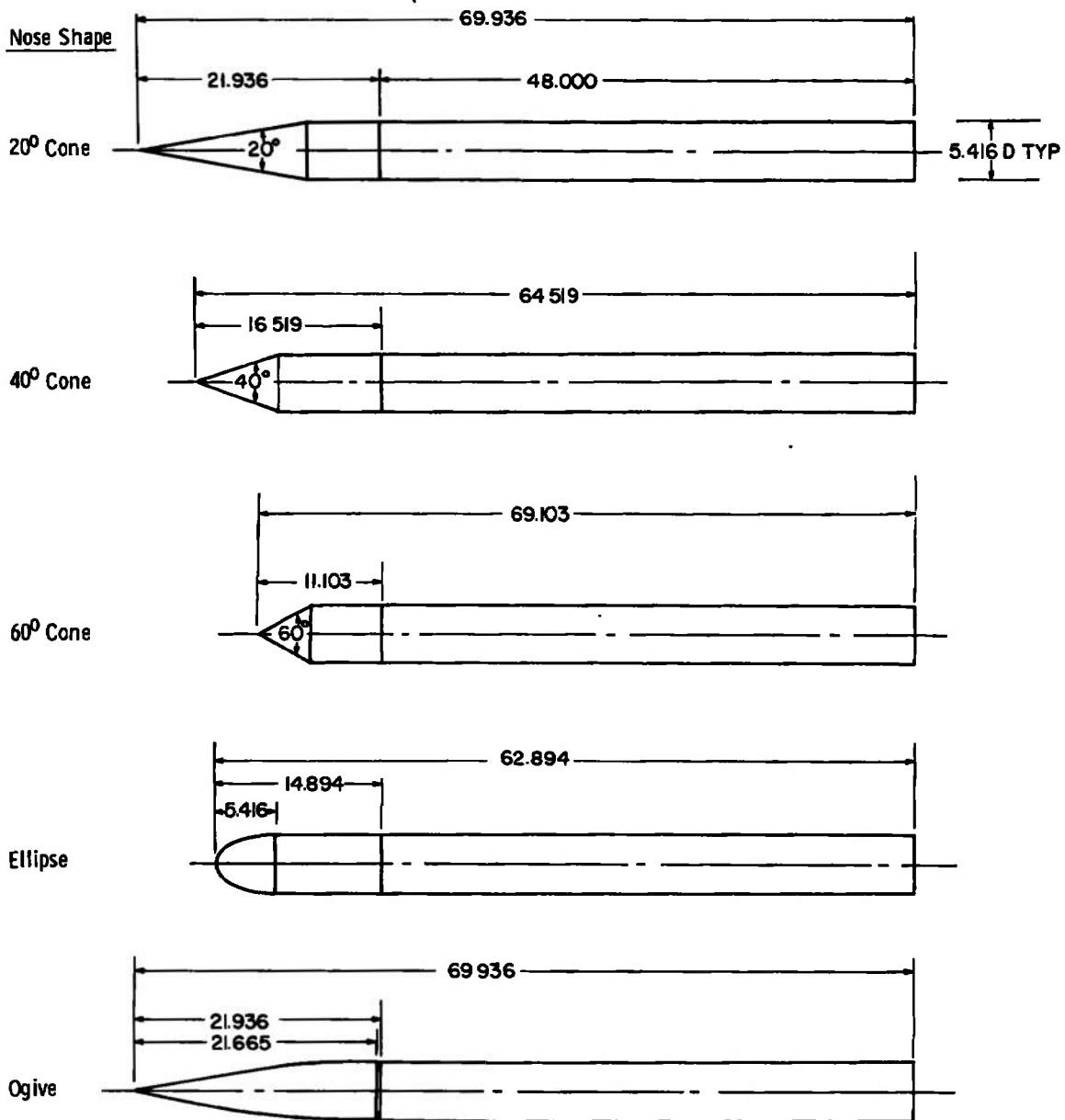


Fig. 2 Basic Dimensions of the Models

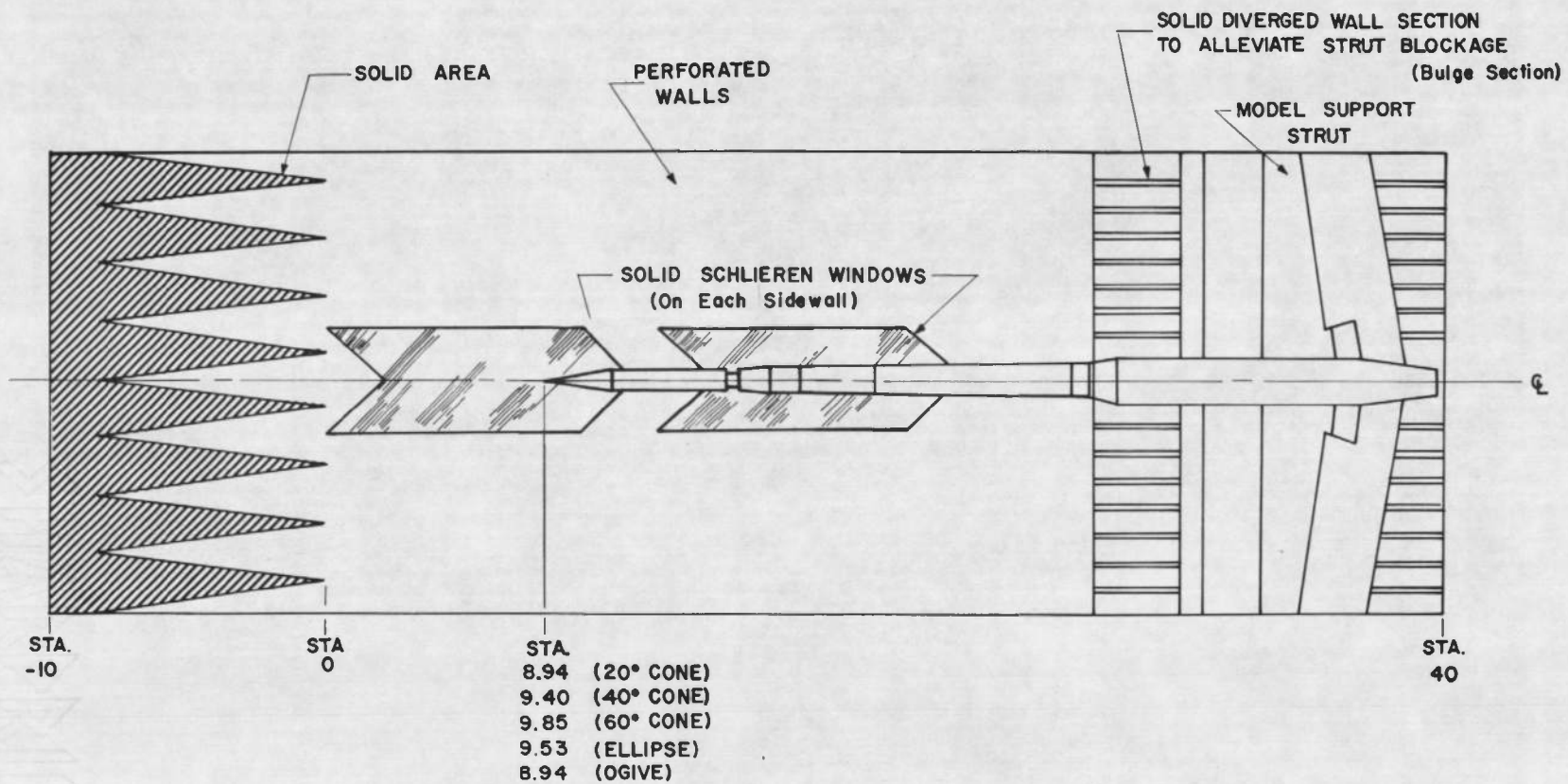


Fig. 3 Model Installation in 16T

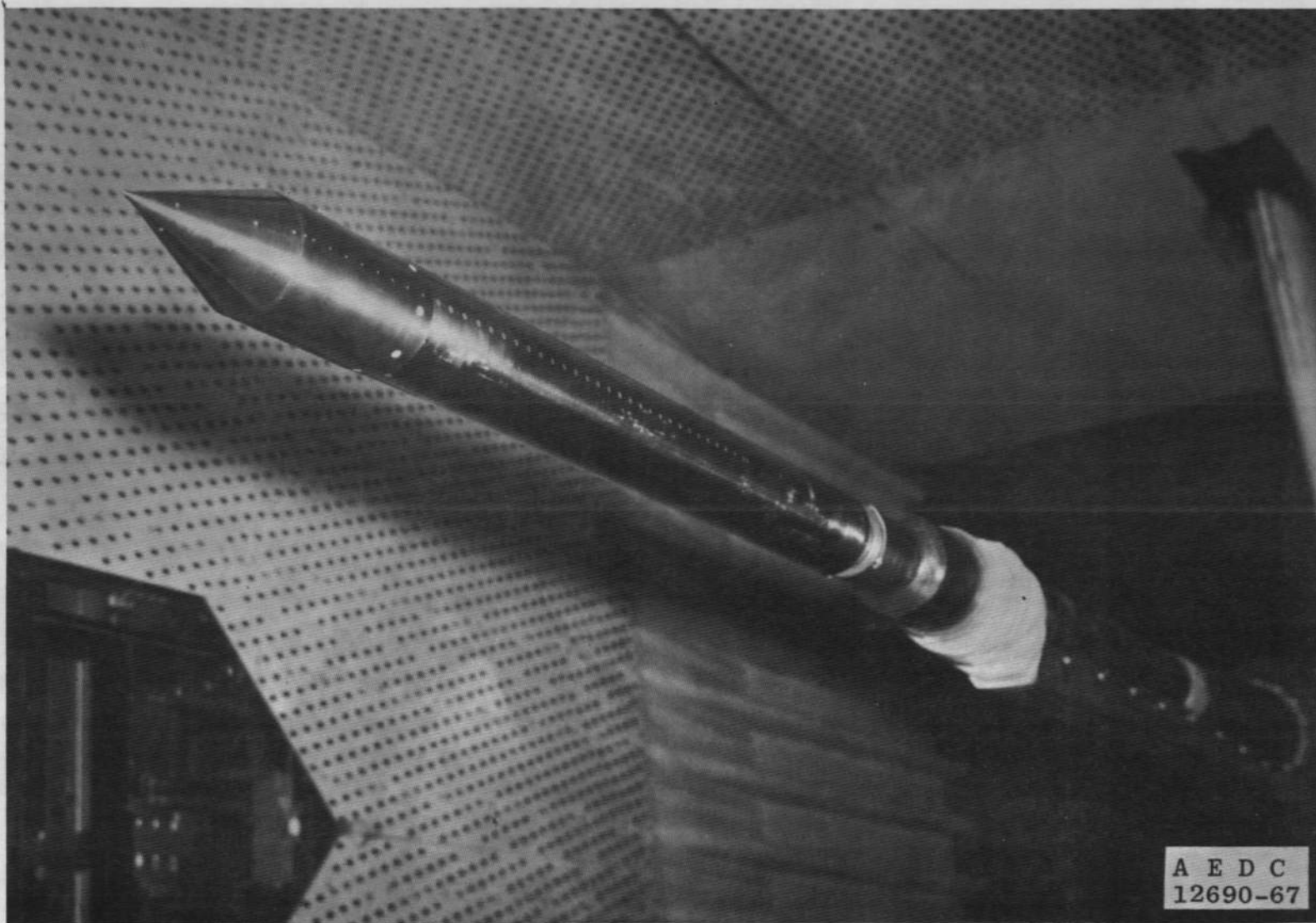


Fig. 4 Typical Model on Sting Support

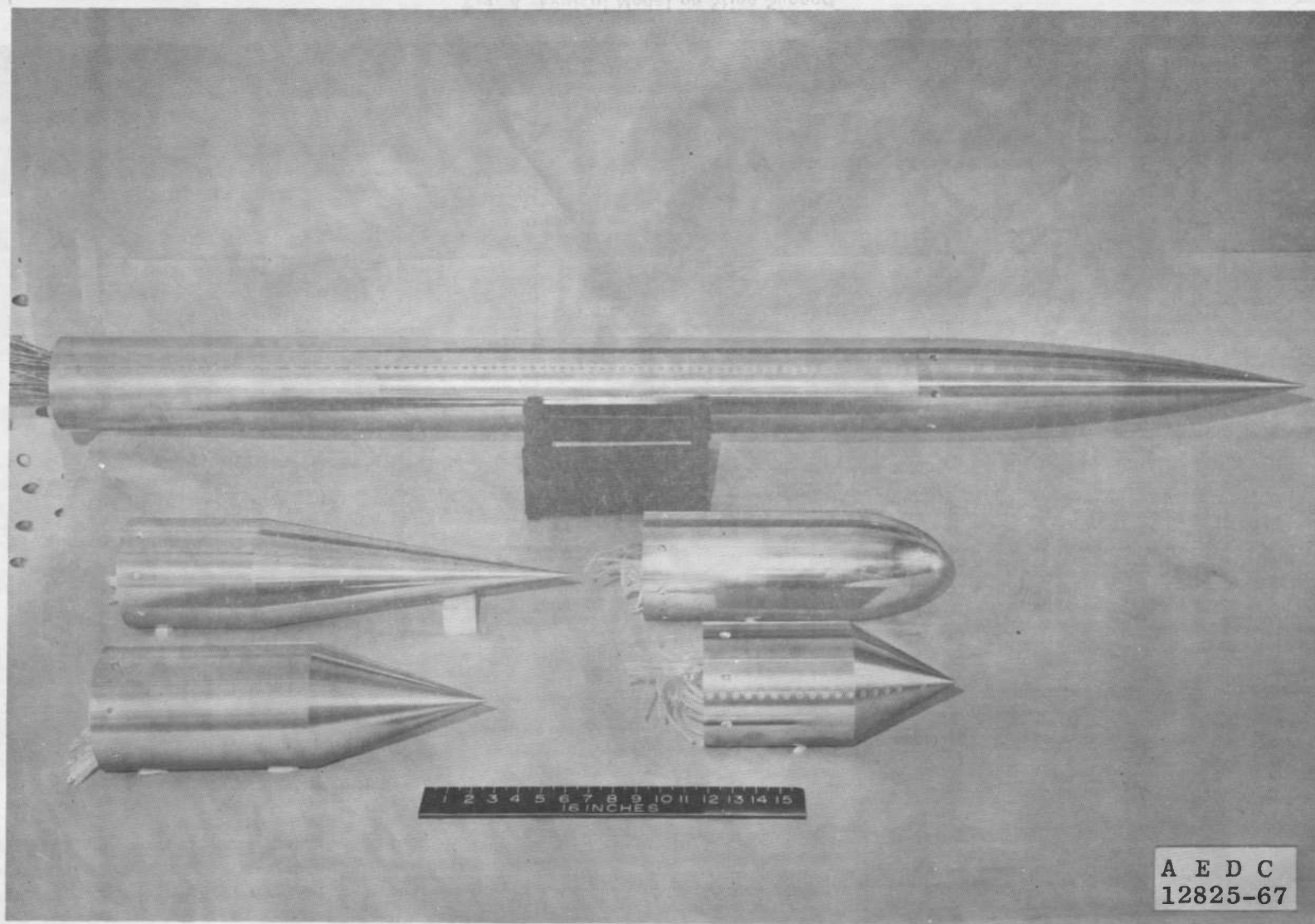
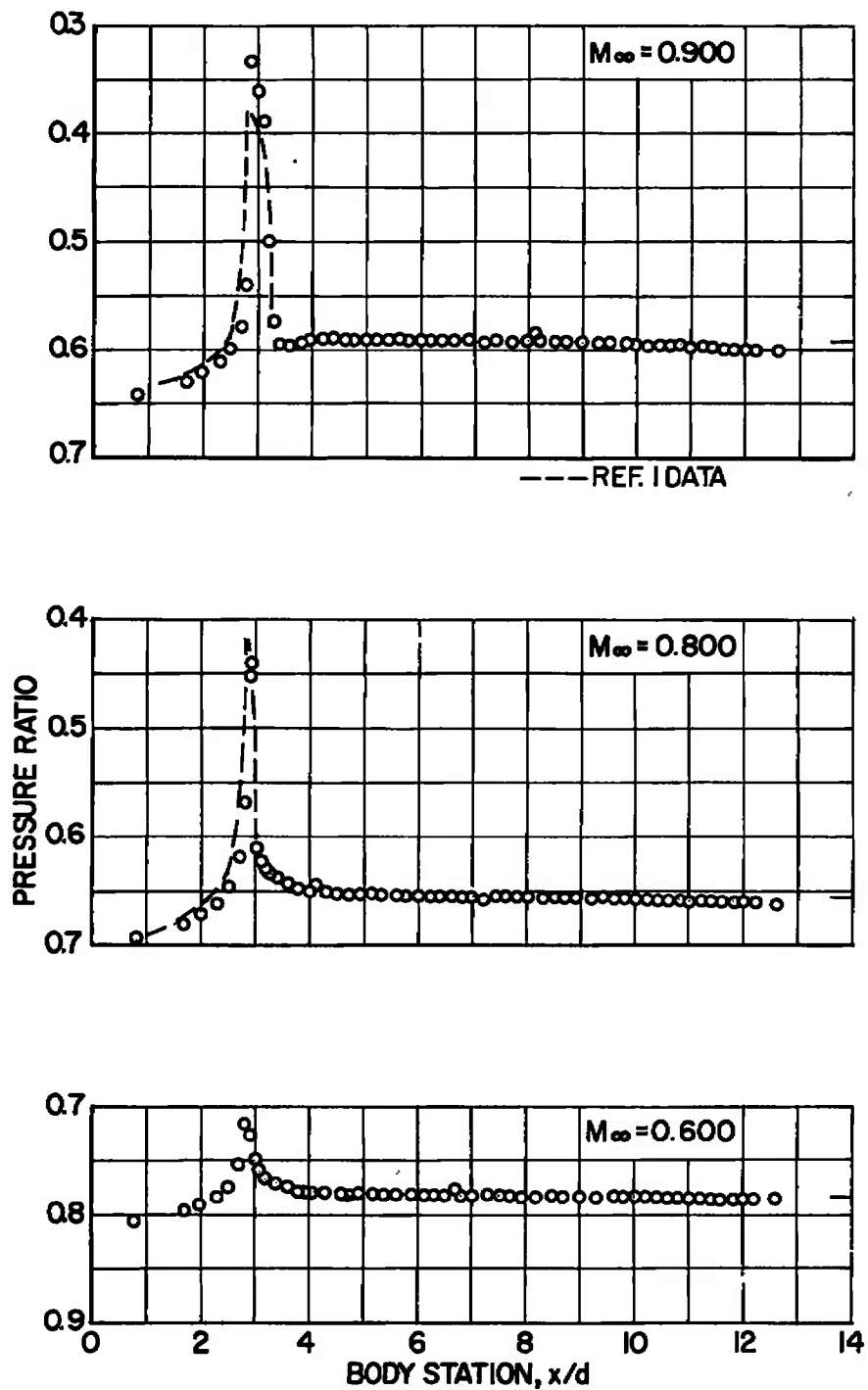
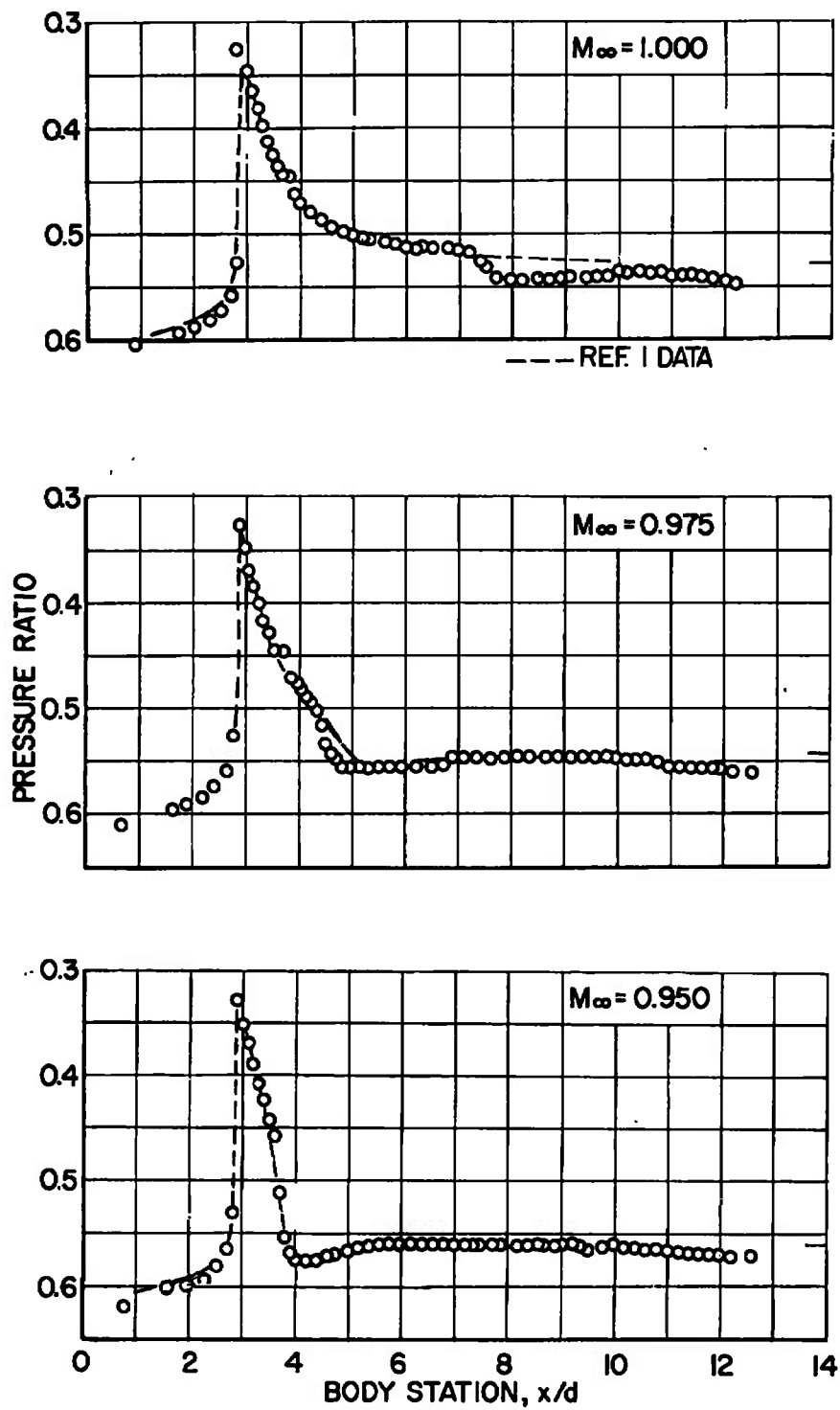


Fig. 5 Photograph of Models



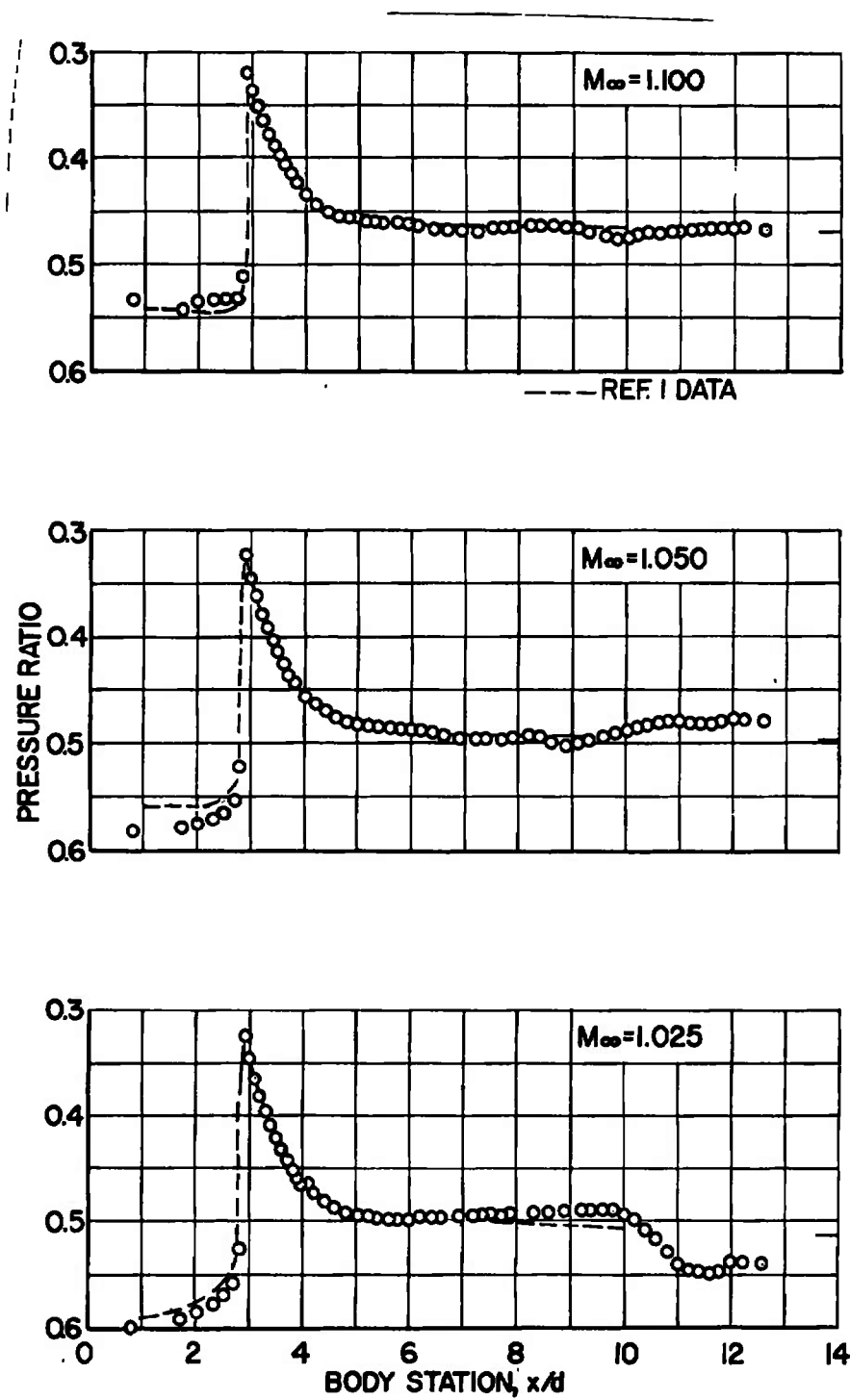
a. $M_\infty = 0.600, 0.800, \text{ and } 0.900$

Fig. 6 Static Pressure Distributions on the 20-deg-Cone Nose Configuration at $\alpha = 0$



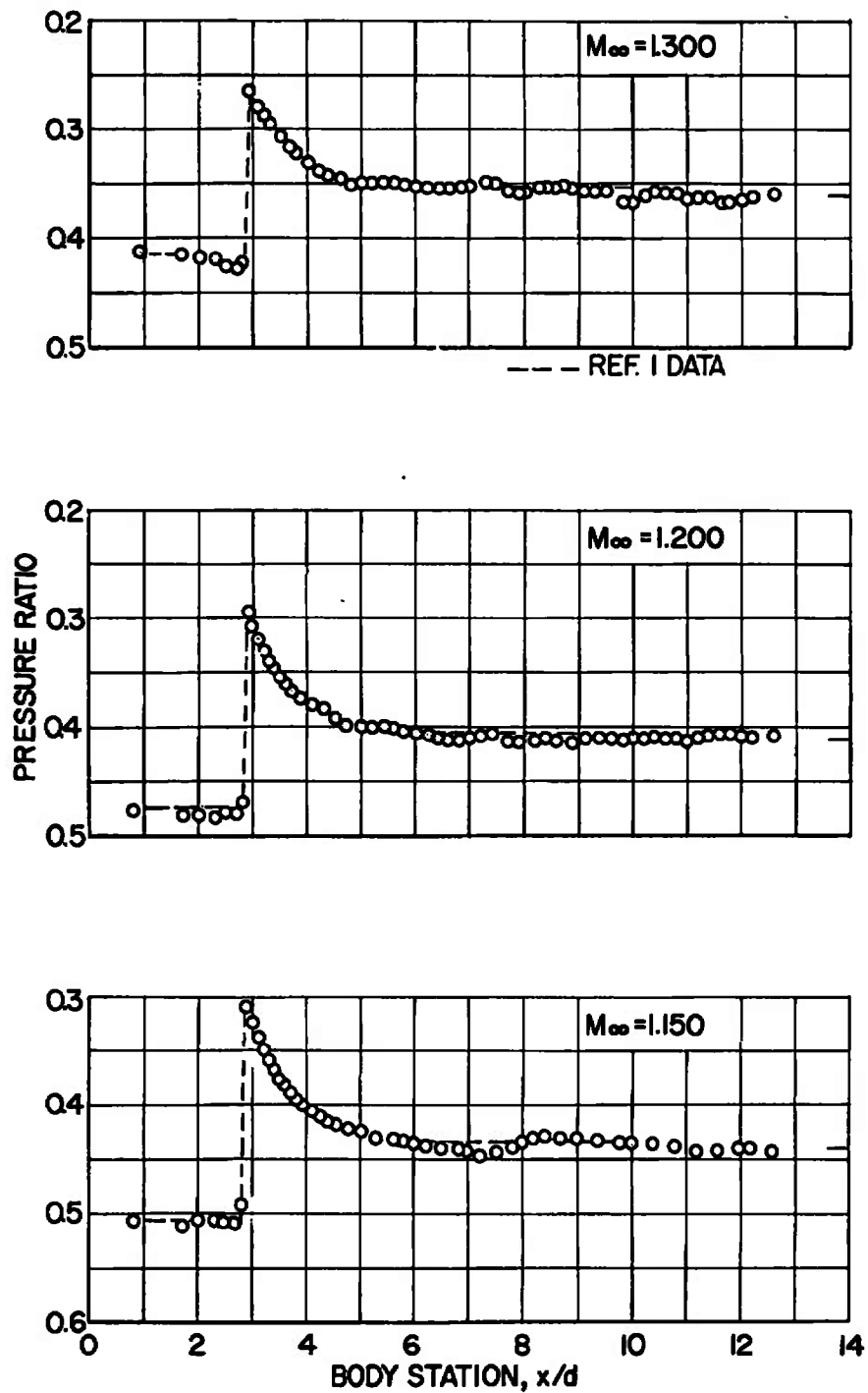
b. $M_\infty = 0.950, 0.975, \text{ and } 1.000$

Fig. 6 Continued



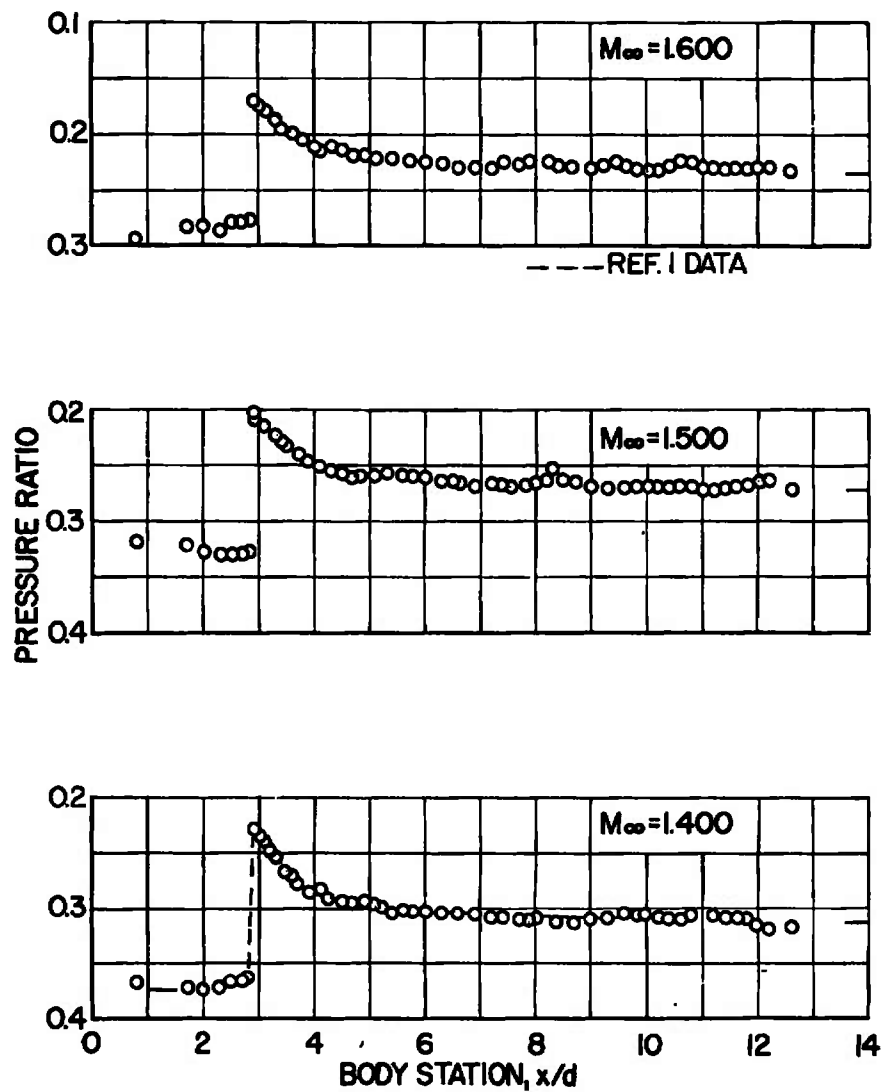
c. $M_\infty = 1.025, 1.050, \text{ and } 1.100$

Fig. 6 Continued



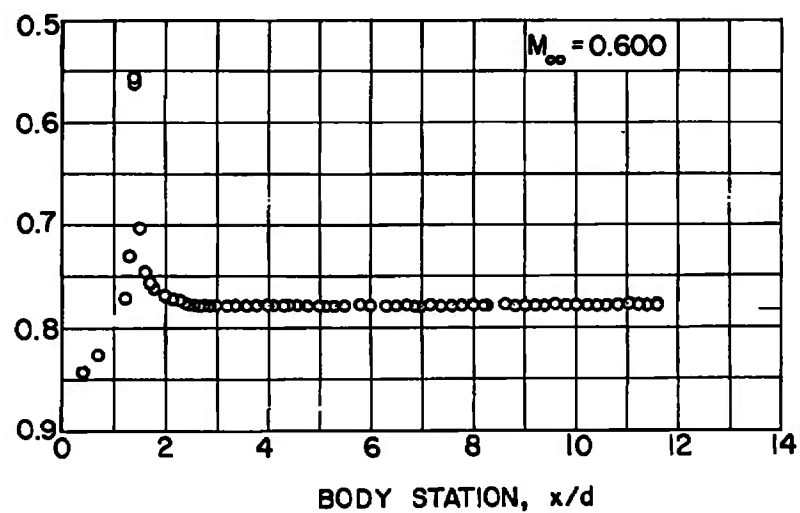
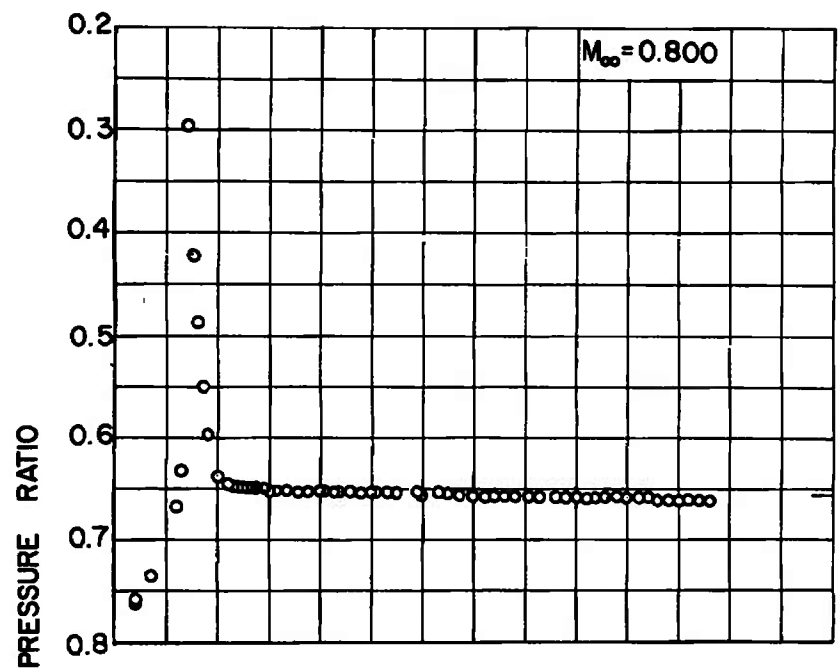
d. $M_\infty = 1.150, 1.200, \text{ and } 1.300$

Fig. 6 Continued



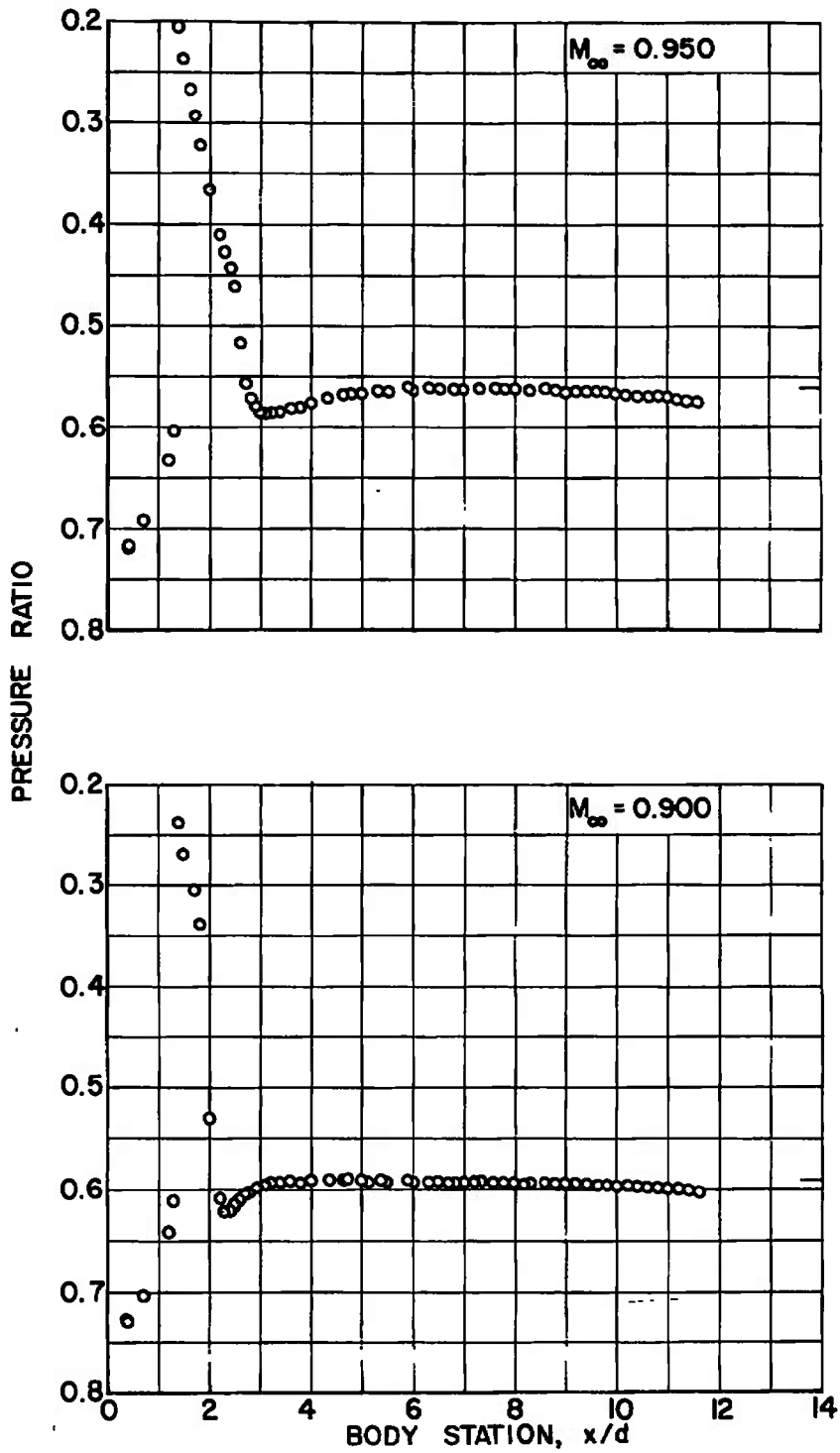
e. $M_\infty = 1.400, 1.500, \text{ and } 1.600$

Fig. 6 Concluded



a. $M_\infty = 0.600$ and 0.800

Fig. 7 Static Pressure Distributions on the 40-deg-Cone Nose Configuration at $\alpha = 0$



b. $M_\infty = 0.900$ and 0.950

Fig. 7 Continued

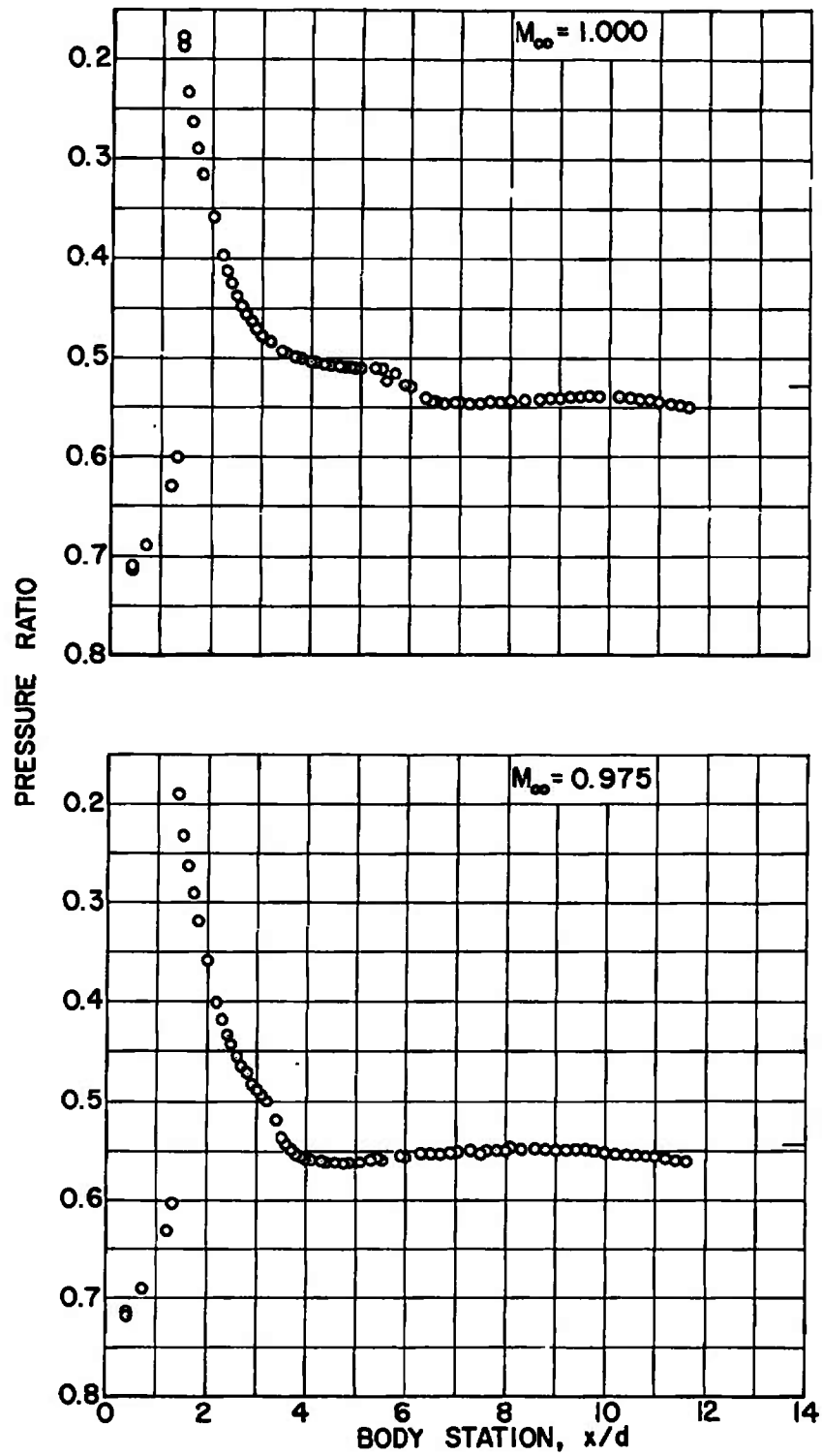
c. $M_\infty = 0.975$ and 1.000

Fig. 7 Continued

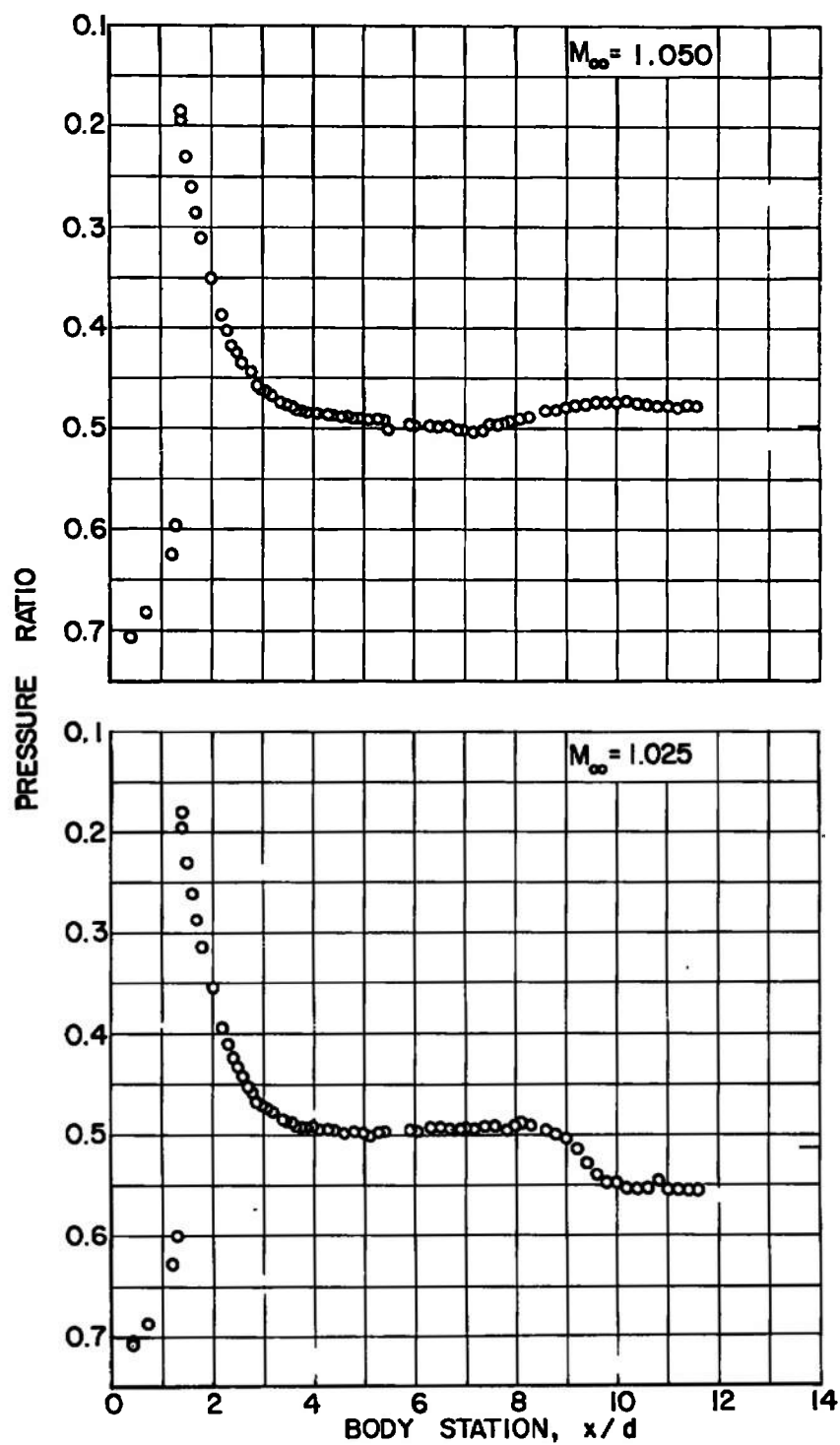
d. $M_\infty = 1.025$ and 1.050

Fig. 7 Continued

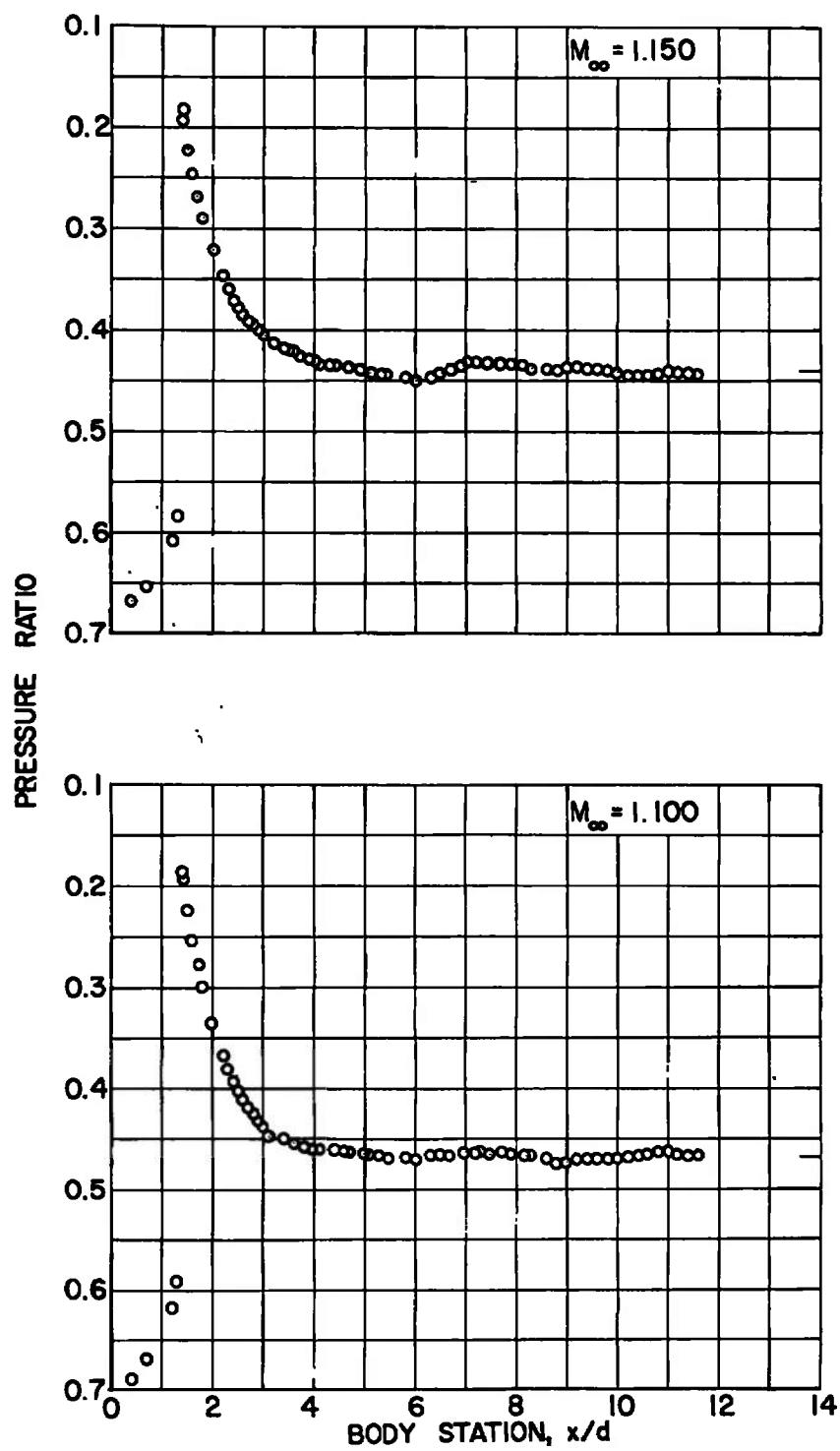
e. $M_\infty = 1.100$ and 1.150

Fig. 7 Continued

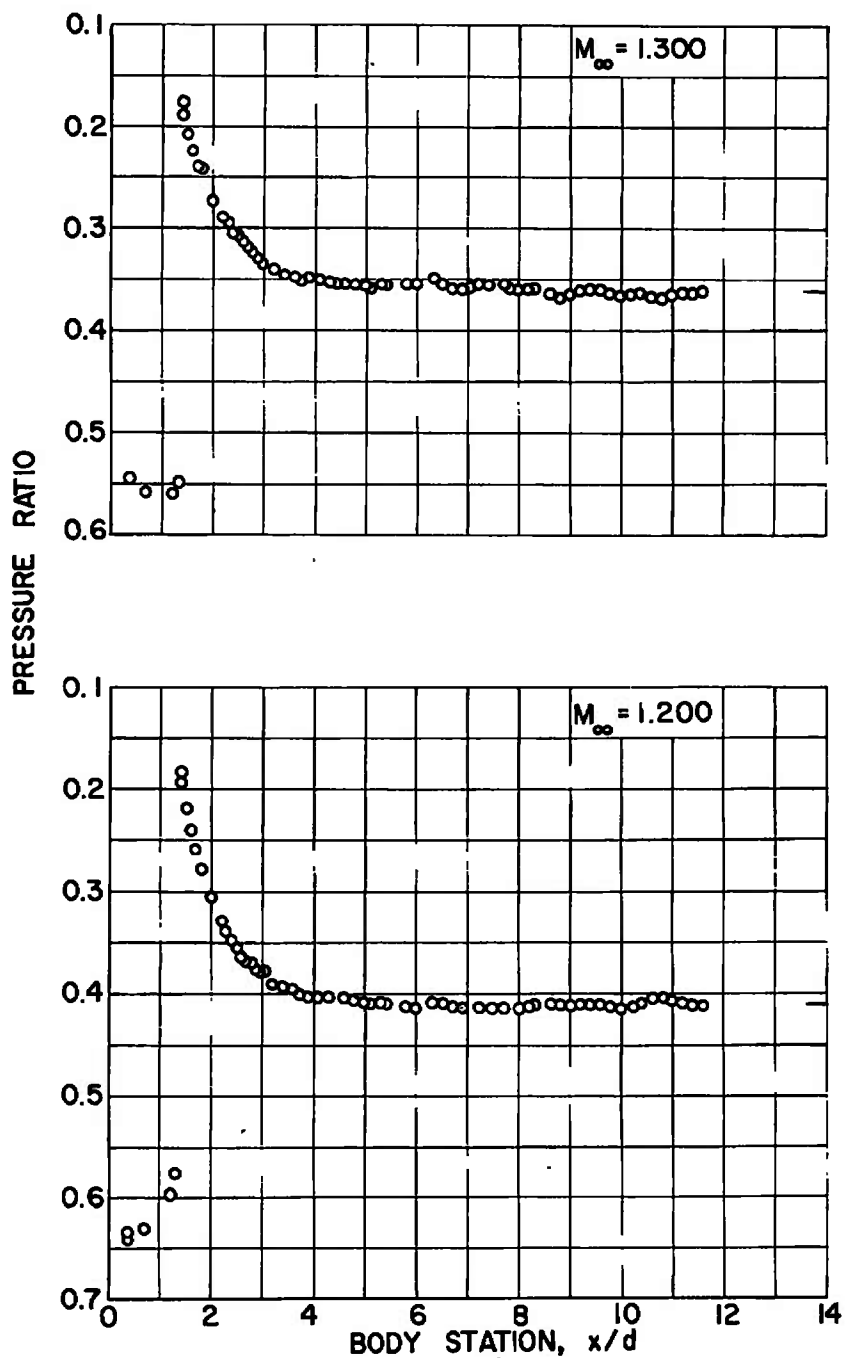
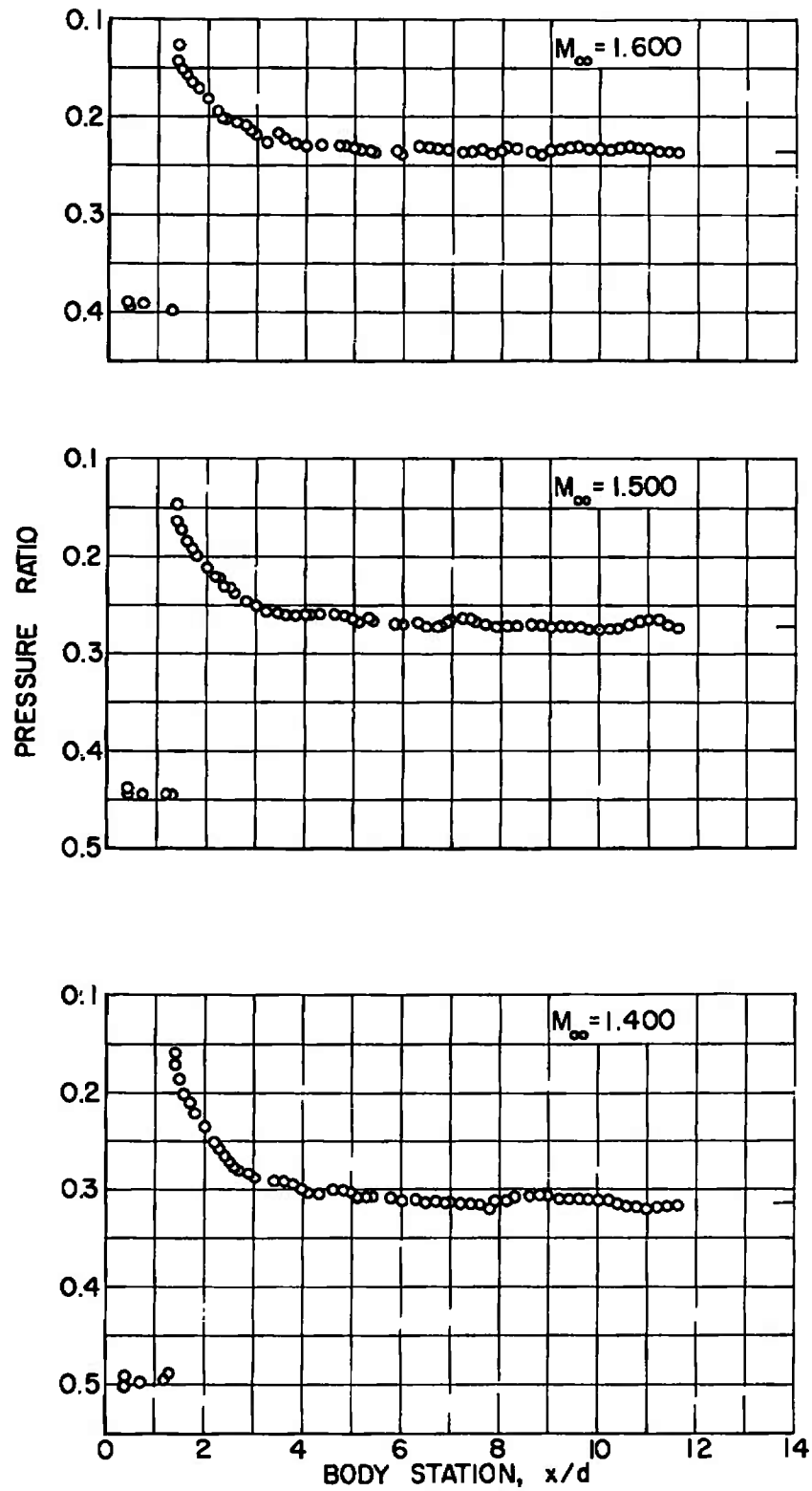
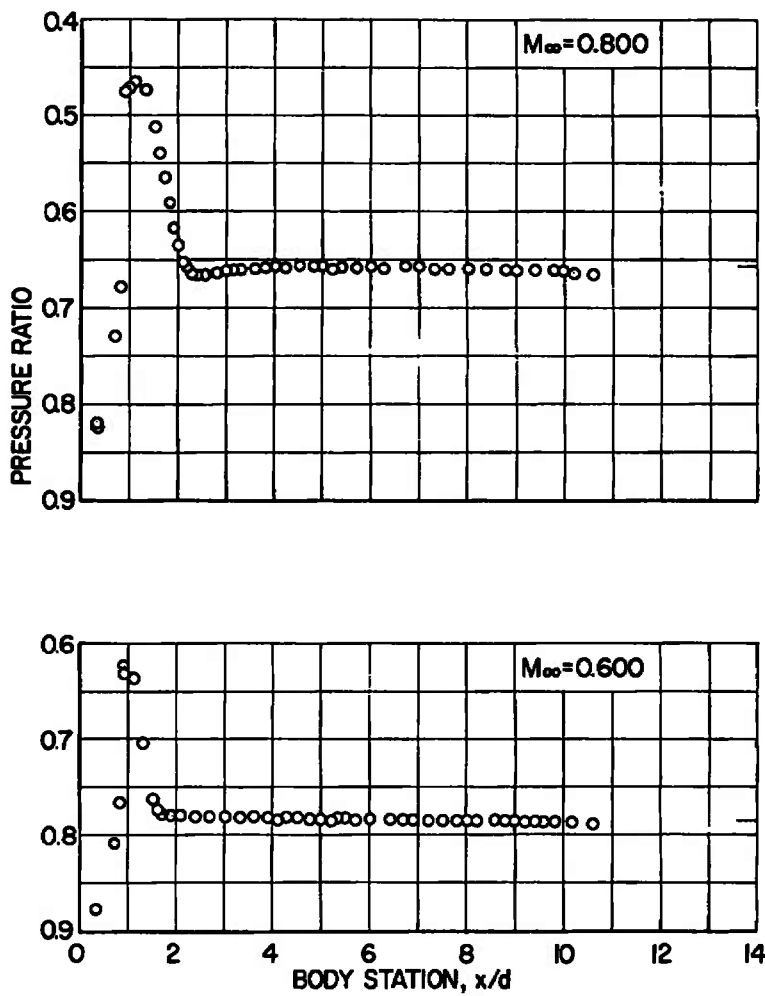
f. $M_{oc} = 1.200$ and 1.300

Fig. 7 Continued



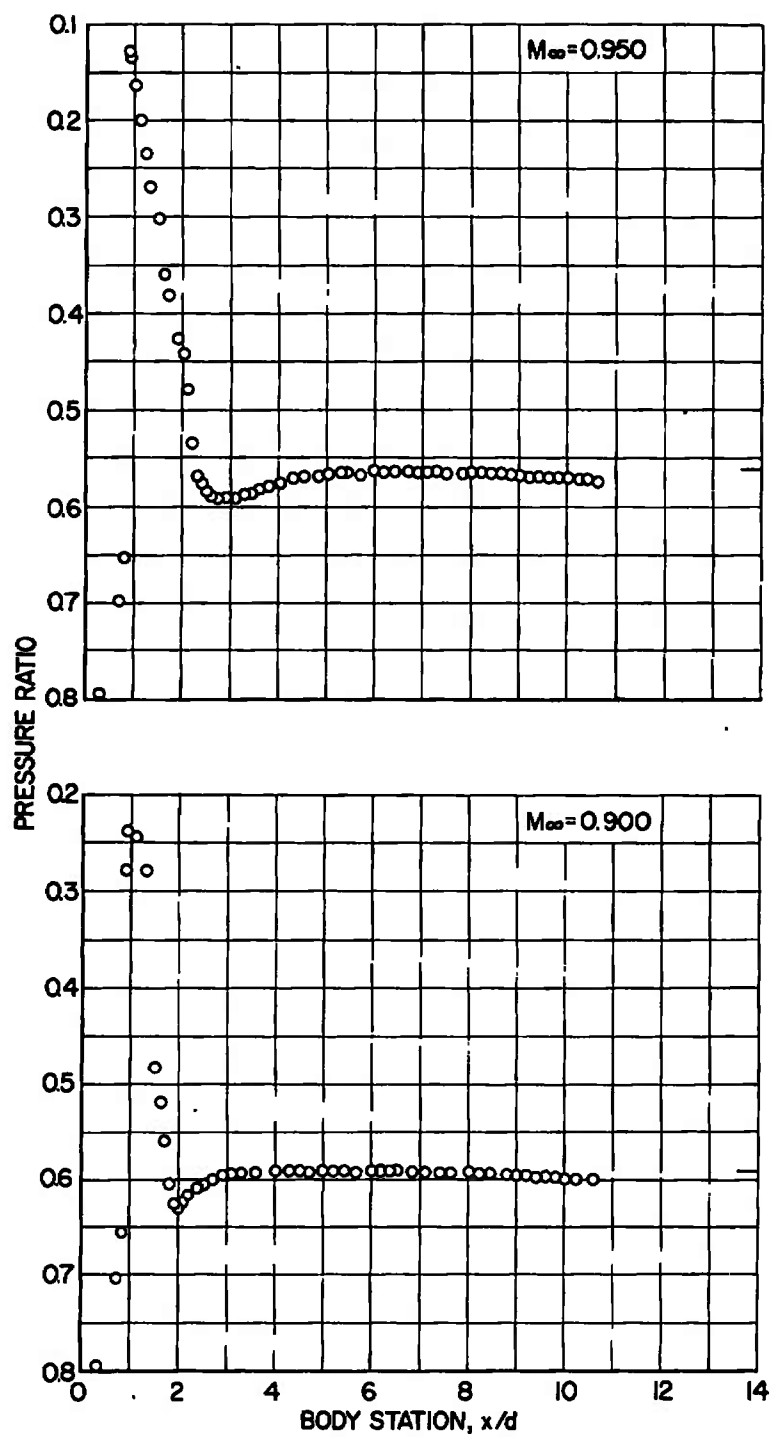
g. $M_\infty = 1.400, 1.500, \text{ and } 1.600$

Fig. 7 Concluded



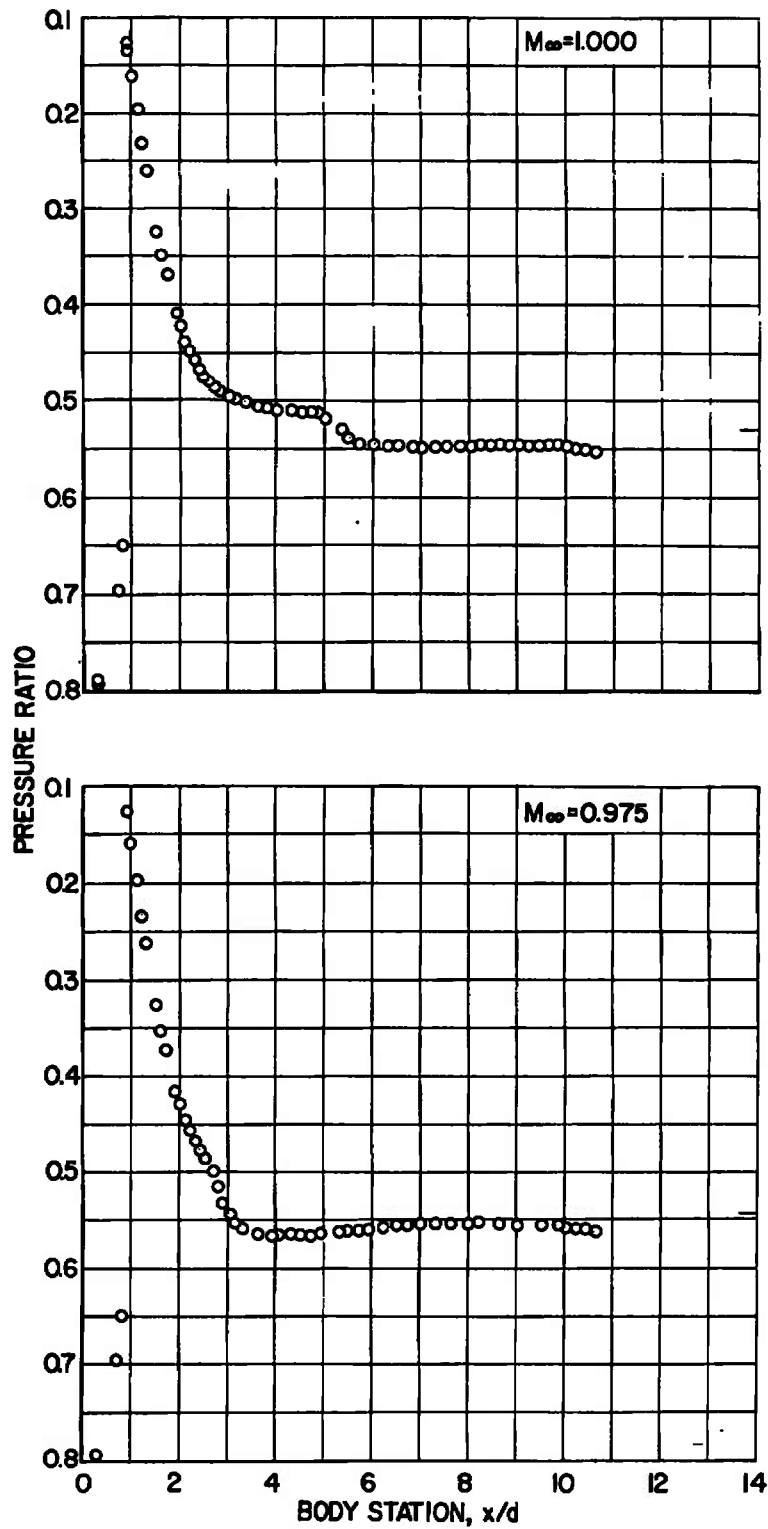
a. $M_\infty = 0.600$ and 0.800

Fig. 8 Static Pressure Distributions on the 60-deg-Cone Nose Configuration at $\alpha = 0$

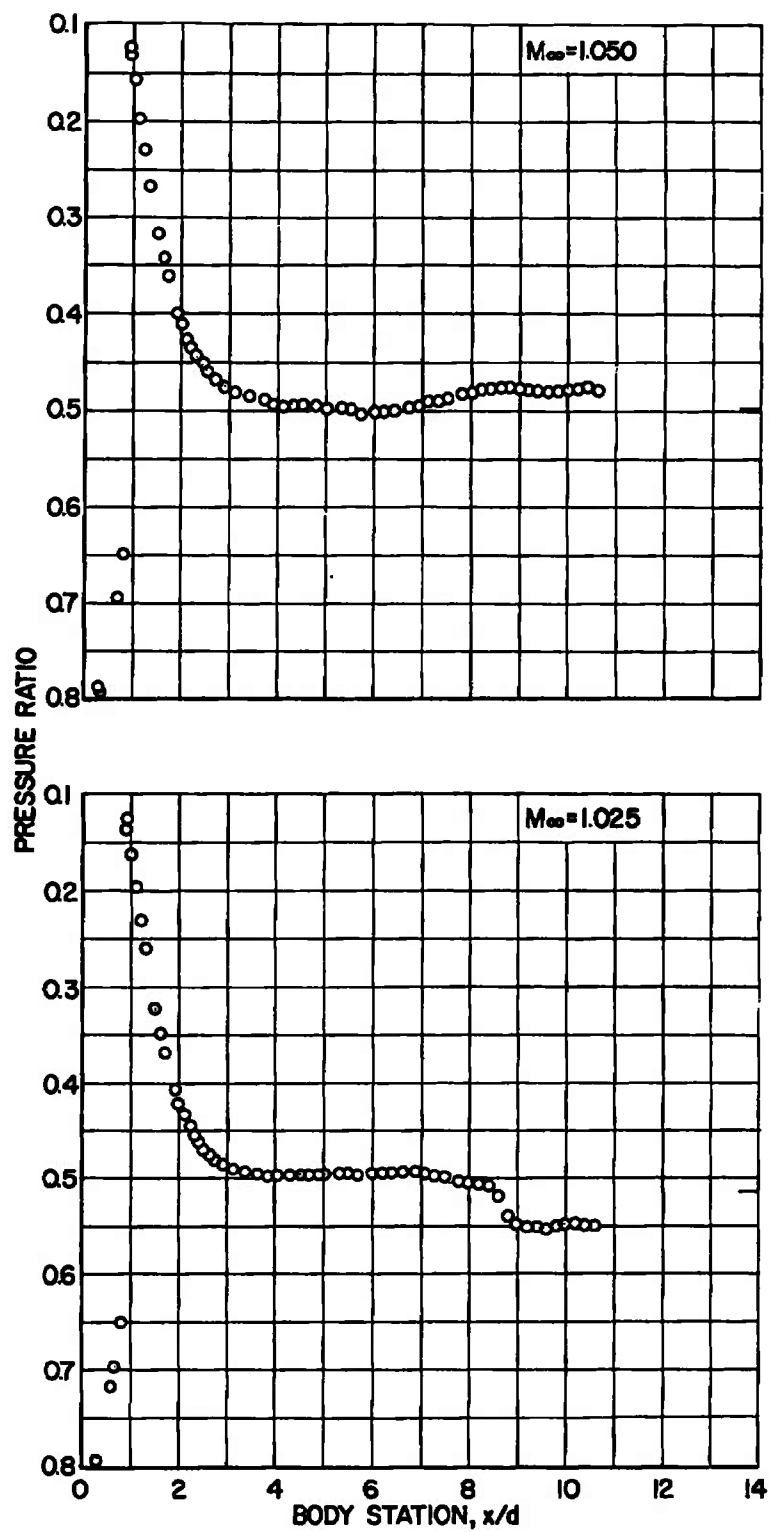


b. $M_{\infty} = 0.900$ and 0.950

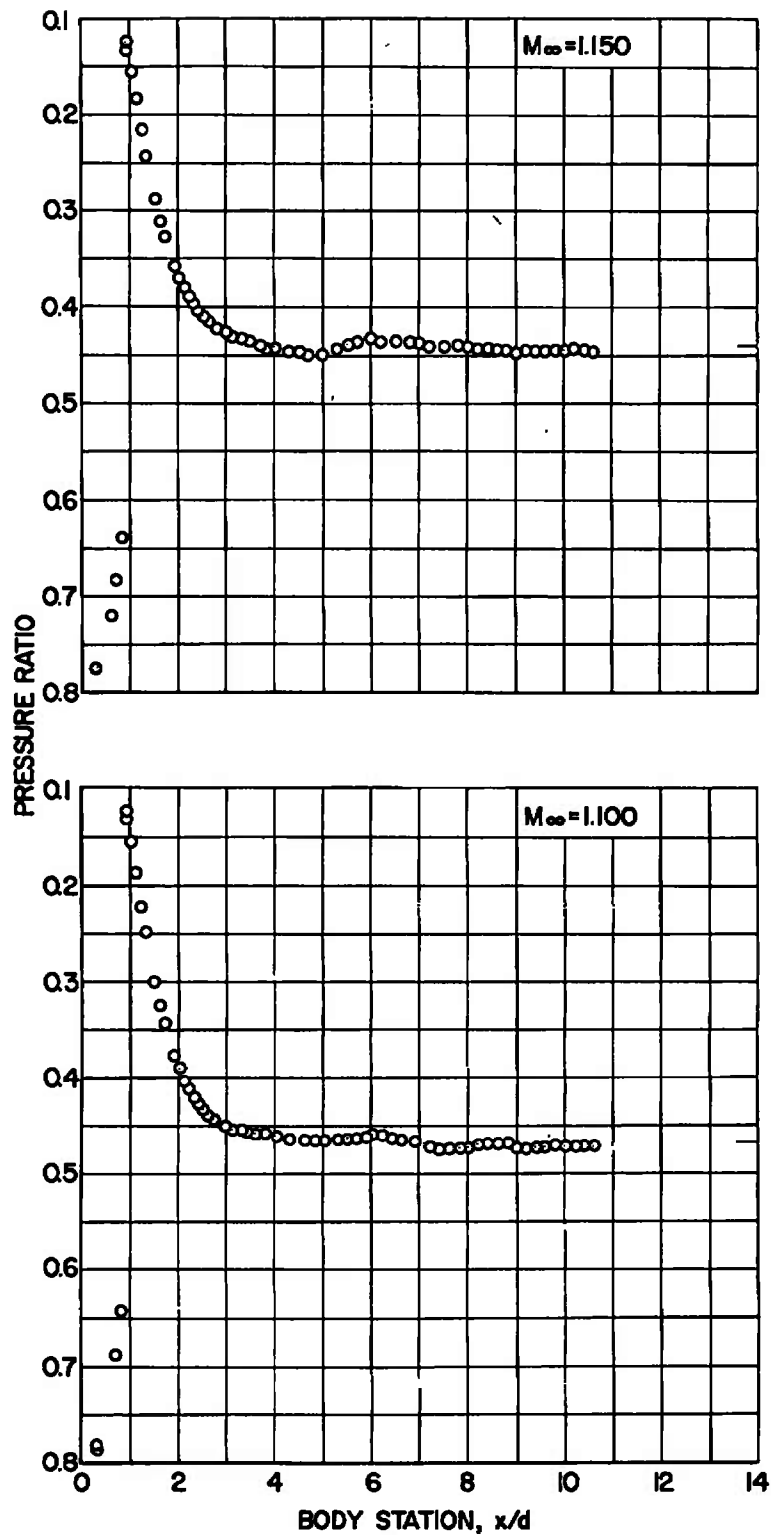
Fig. 8 Continued



c. $M_\infty = 0.975$ and 1.000
Fig. 8 Continued

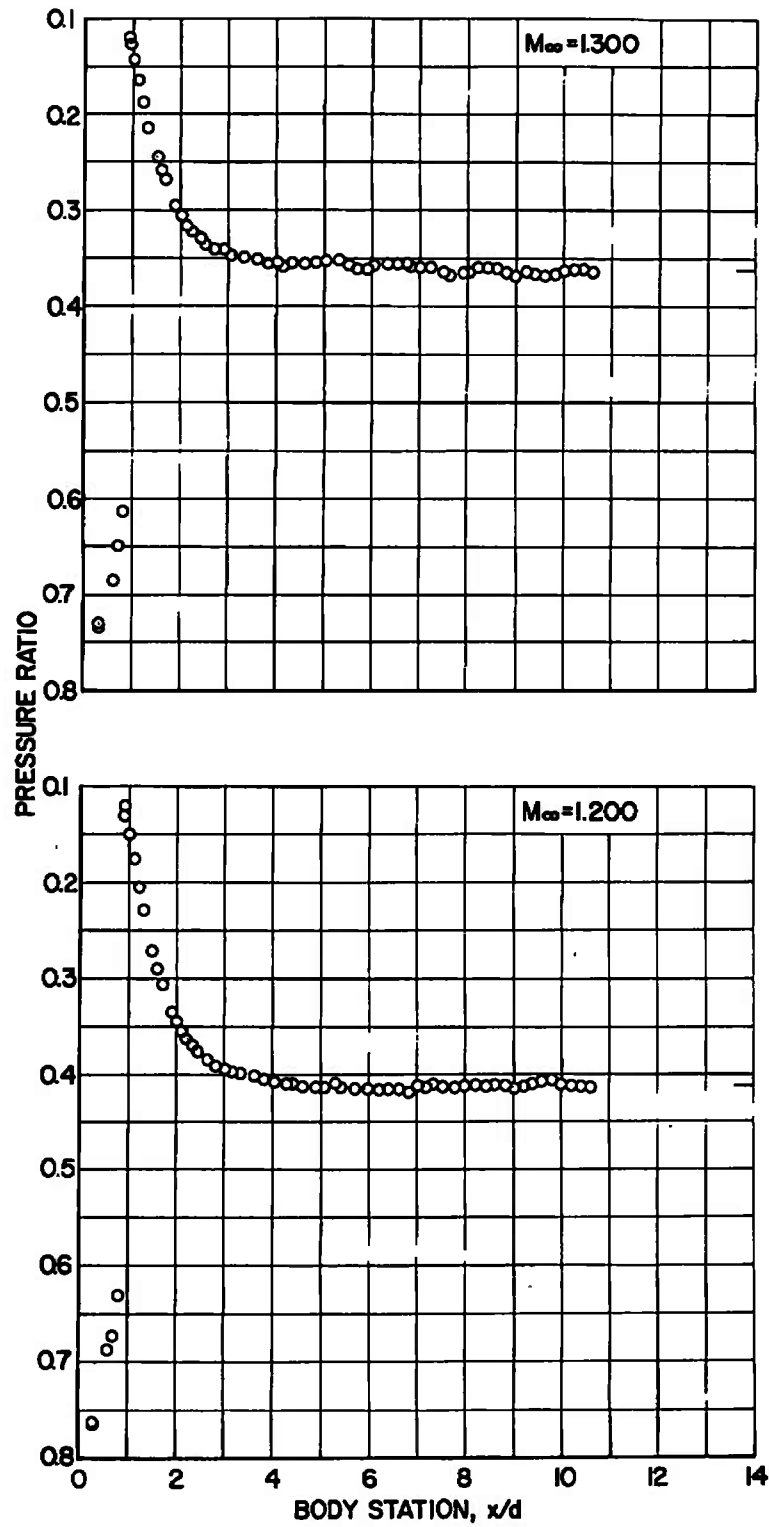


d. $M_{\infty} = 1.025$ and 1.050
Fig. 8 Continued



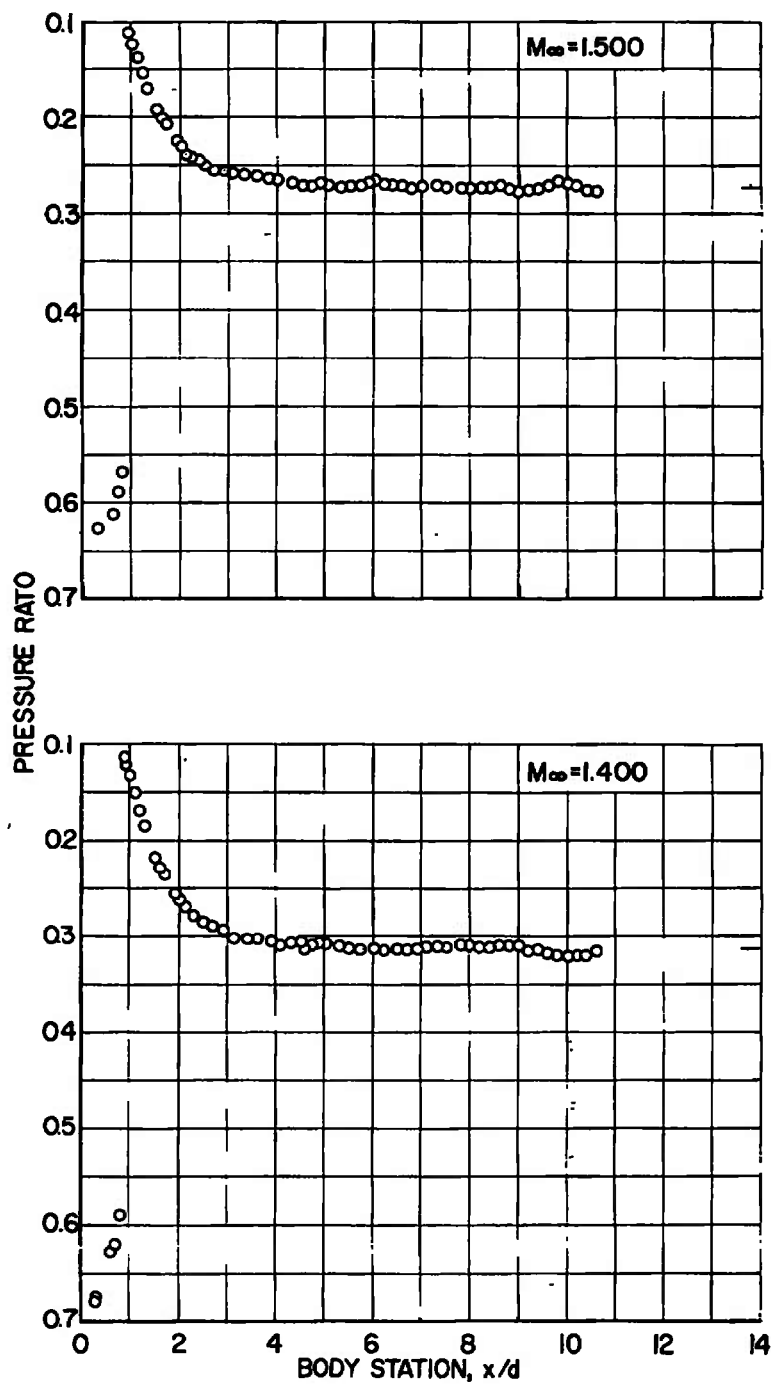
e. $M_\infty = 1.100$ and 1.150

Fig. 8 Continued



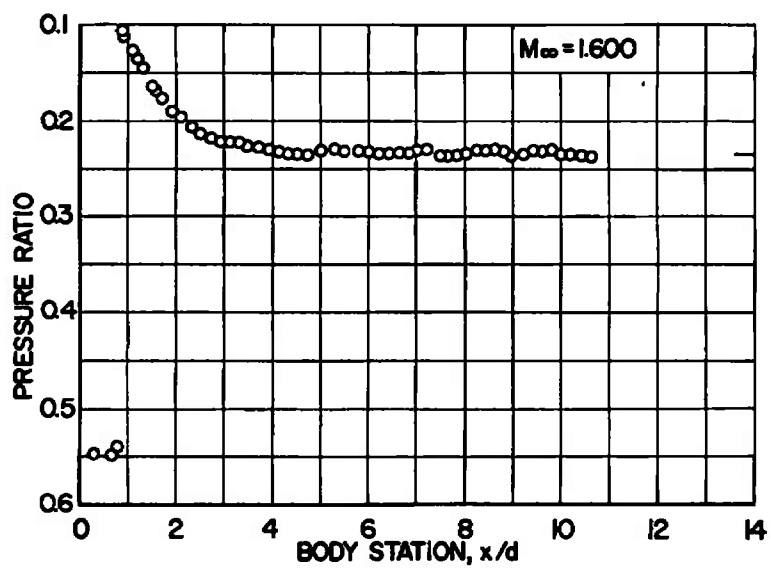
f. $M_{\infty} = 1.200$ and 1.300

Fig. 8 Continued

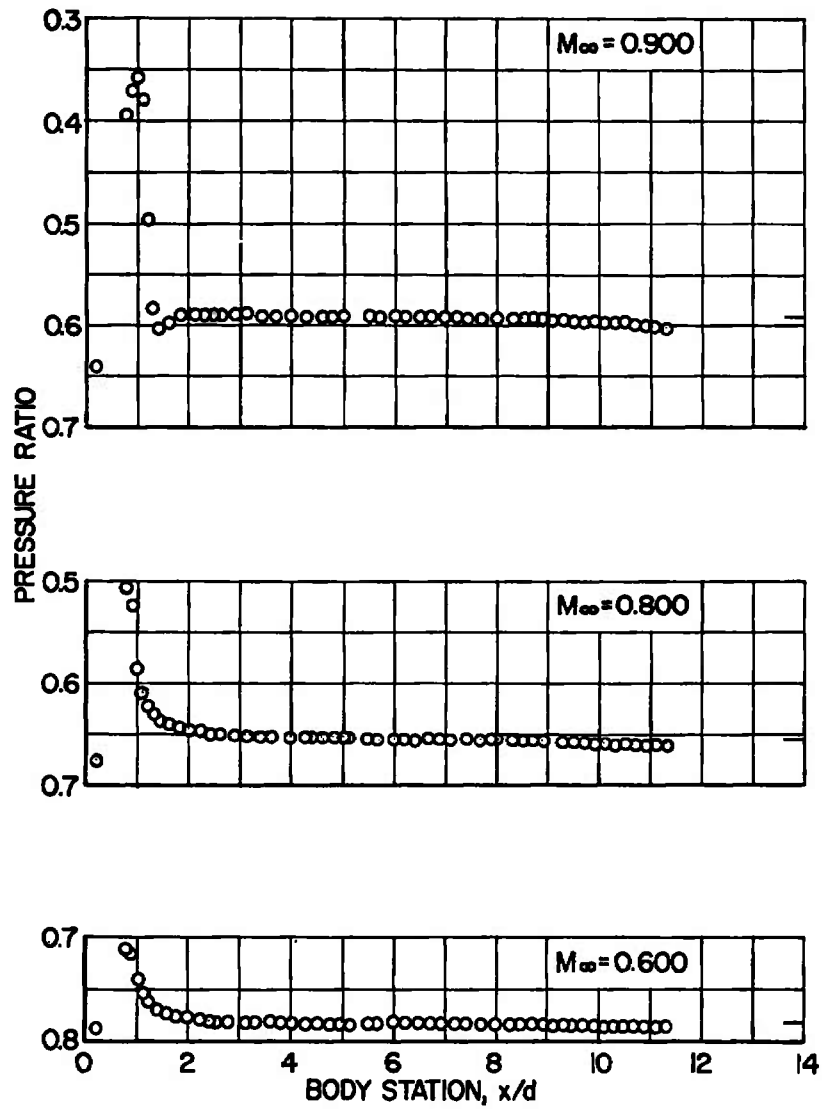


g. $M_\infty = 1.400$ and 1.500

Fig. 8 Continued

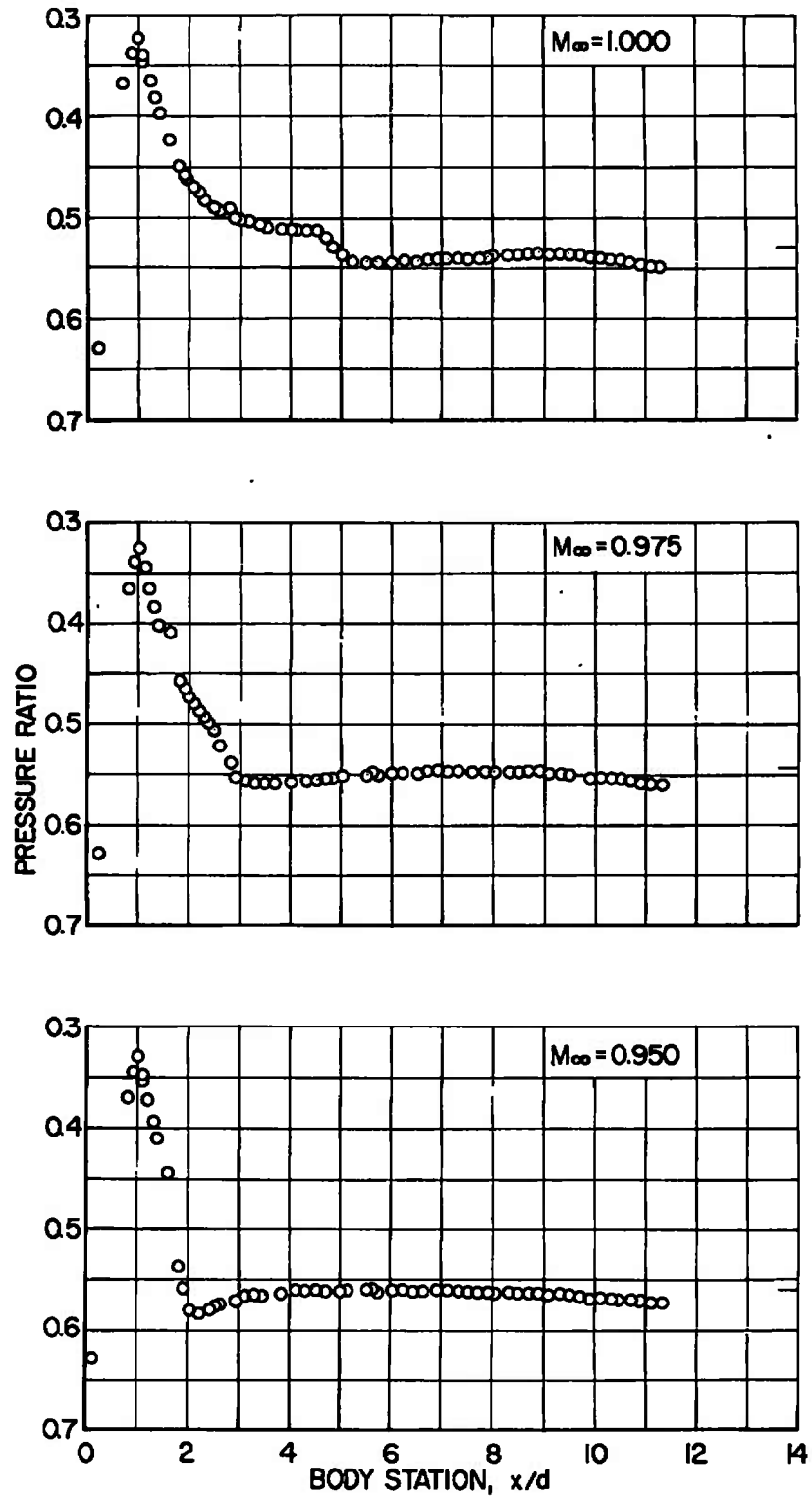


h. $M_{\infty} = 1.600$
Fig. 8 Concluded



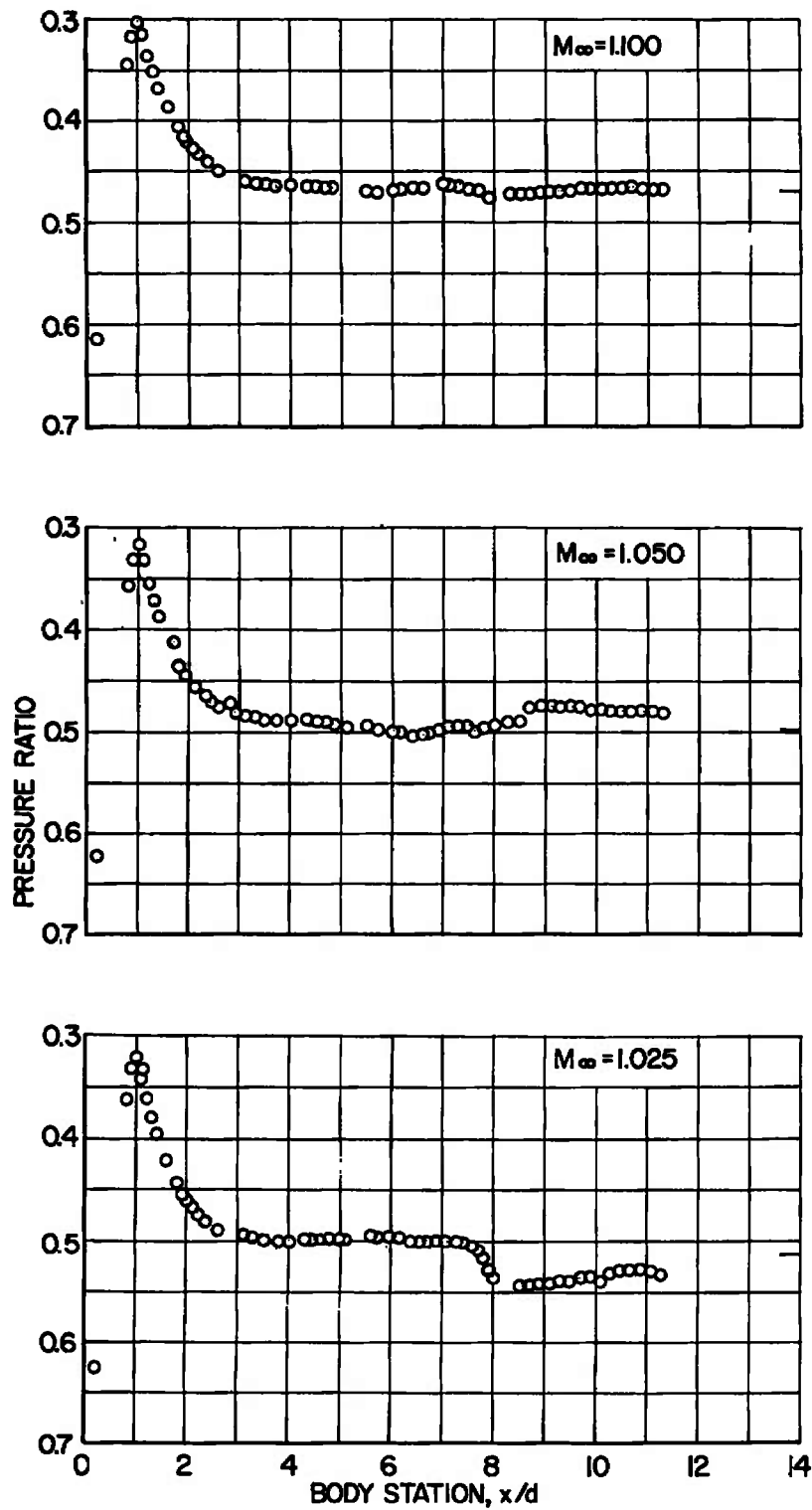
a. $M_\infty = 0.600, 0.800, \text{ and } 0.900$

Fig. 9 Static Pressure Distributions on the Elliptical Nose Configuration at $\alpha = 0$



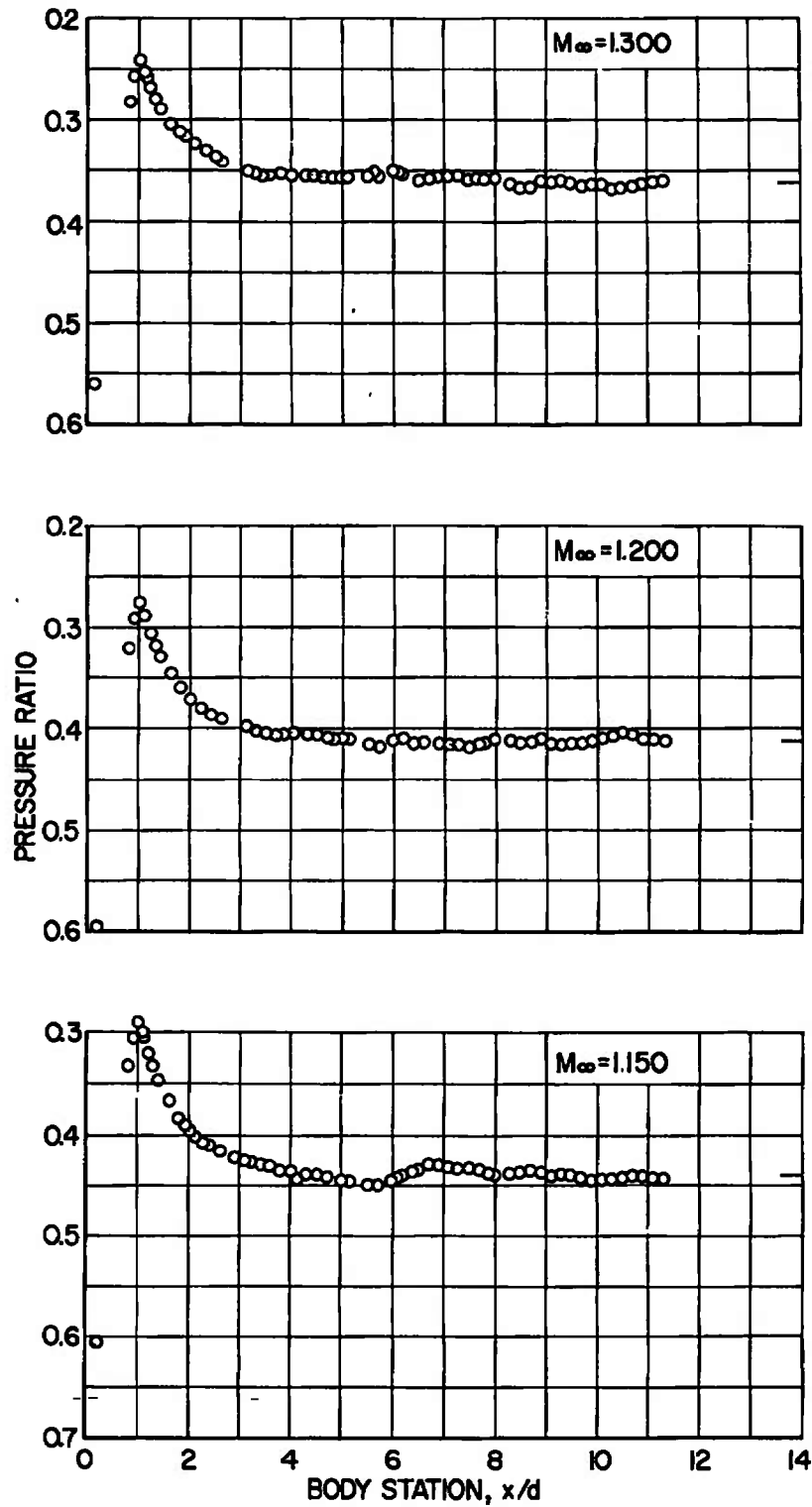
b. $M_\infty = 0.950, 0.975, \text{ and } 1.000$

Fig. 9 Continued

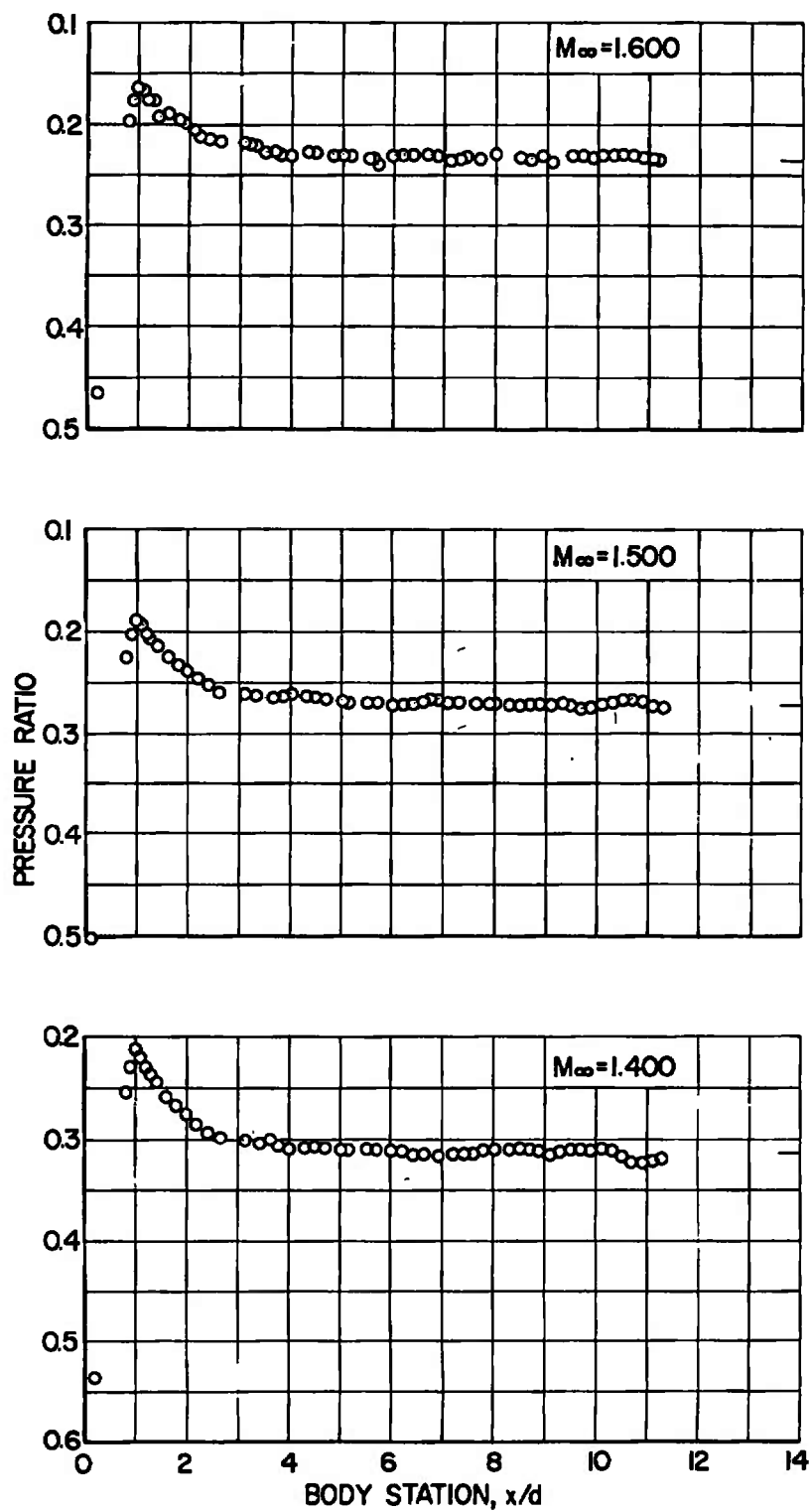


c. $M_\infty = 1.025, 1.050, \text{ and } 1.100$

Fig. 9 Continued

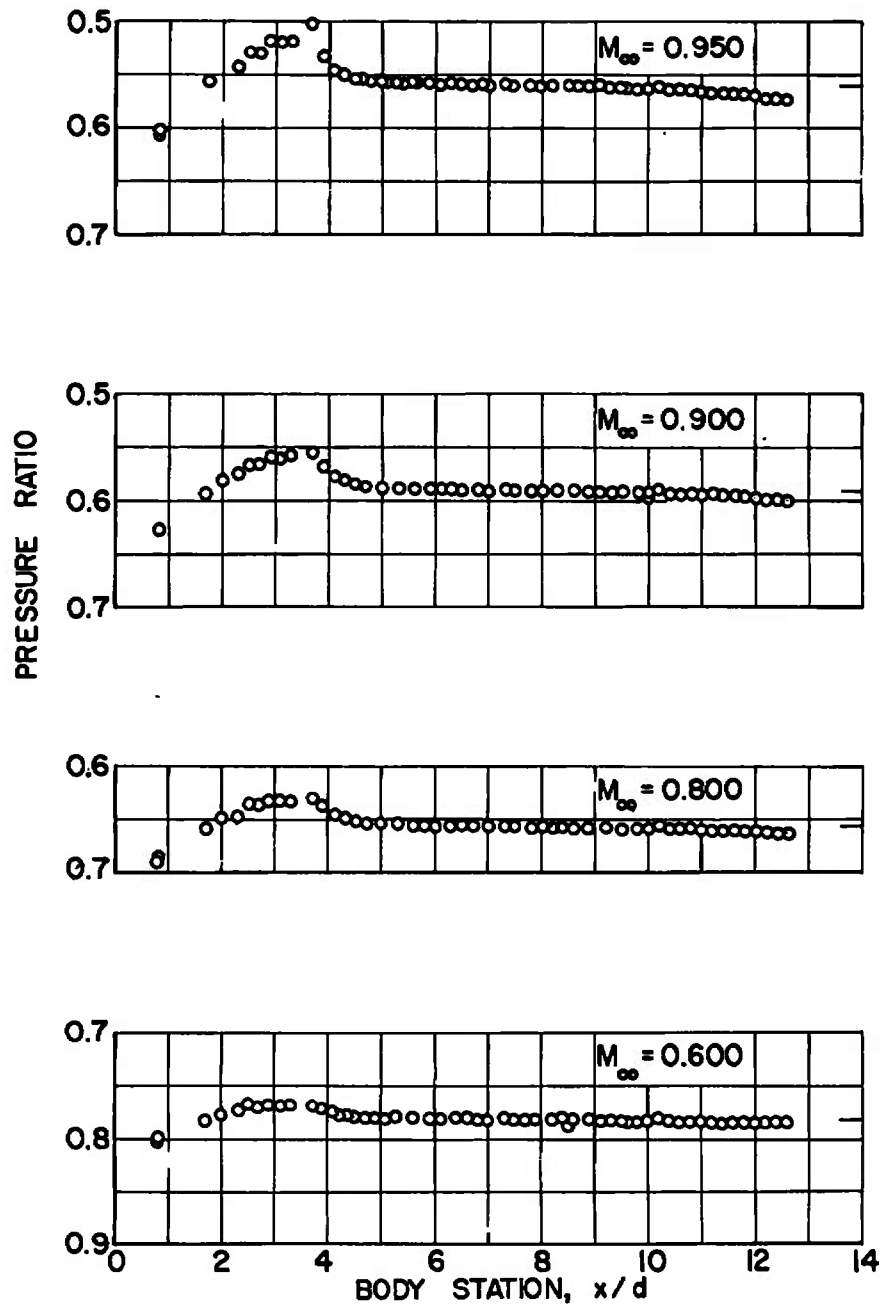


d. $M_\infty = 1.150, 1.200, \text{ and } 1.300$
 Fig. 9 Continued



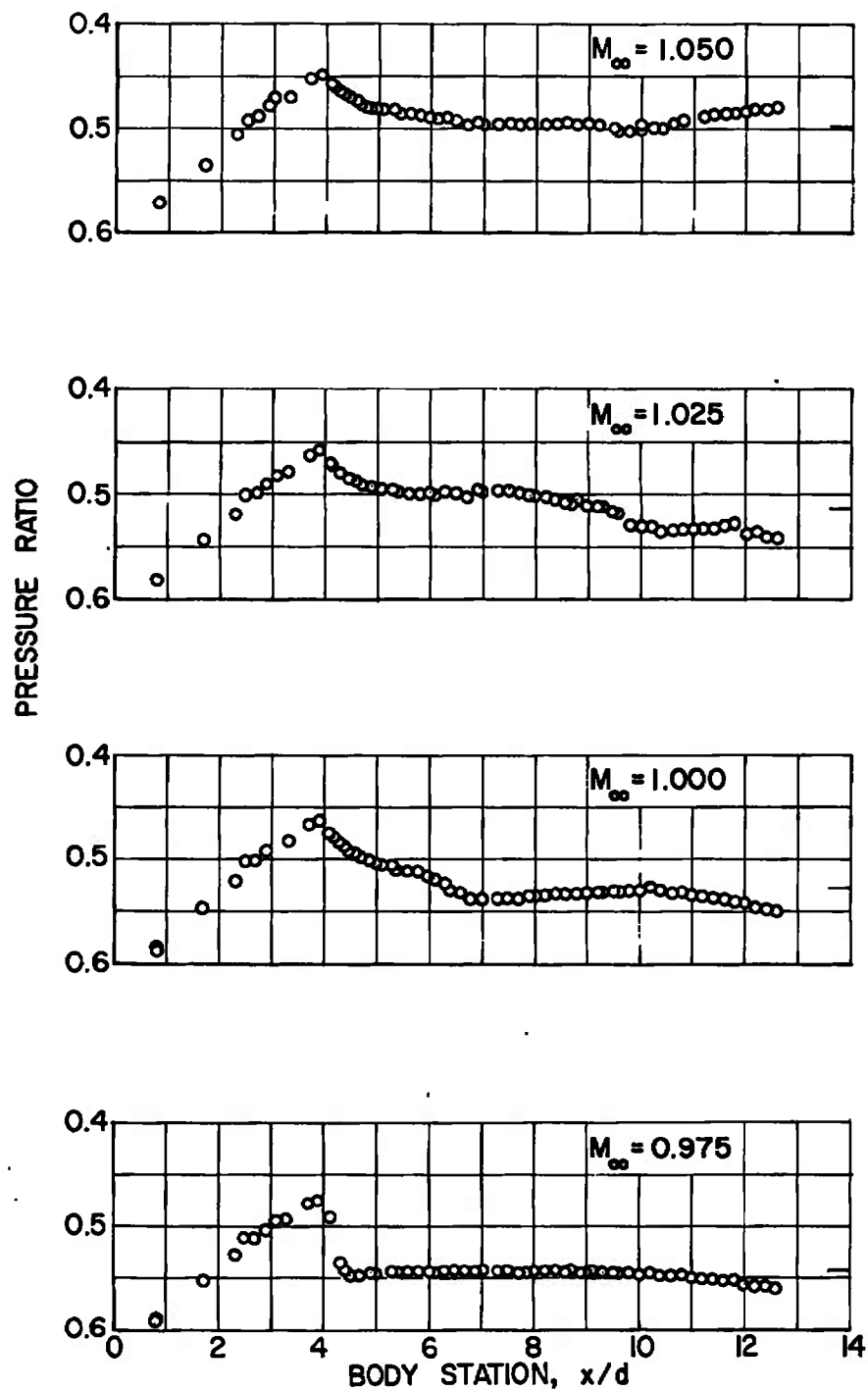
e. $M_\infty = 1.400, 1.500, \text{ and } 1.600$

Fig. 9 Concluded



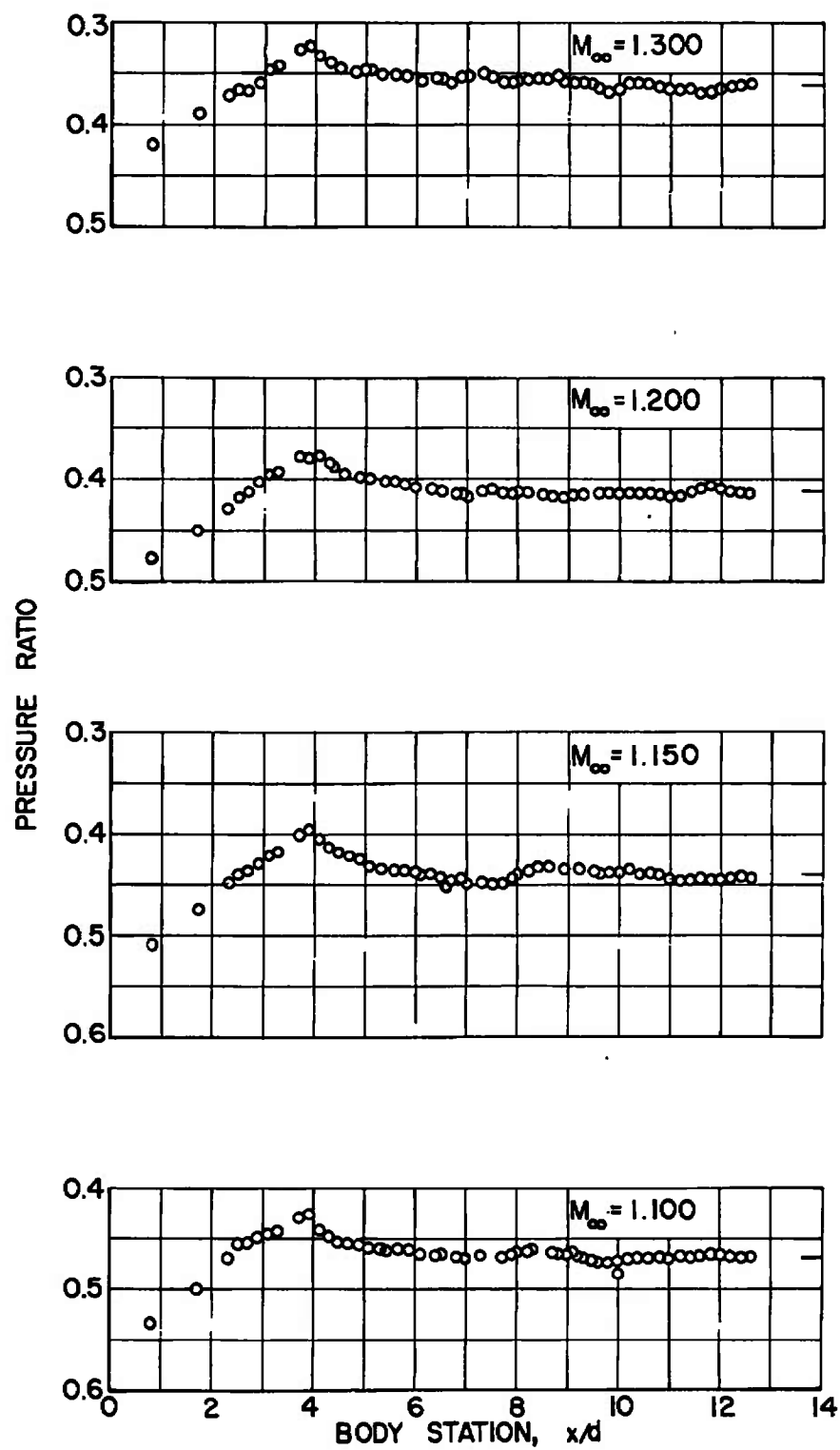
a. $M_\infty = 0.600, 0.800, 0.900, \text{ and } 0.950$

Fig. 10 Static Pressure Distributions on the Ogive Nose Configuration at $\alpha = 0$



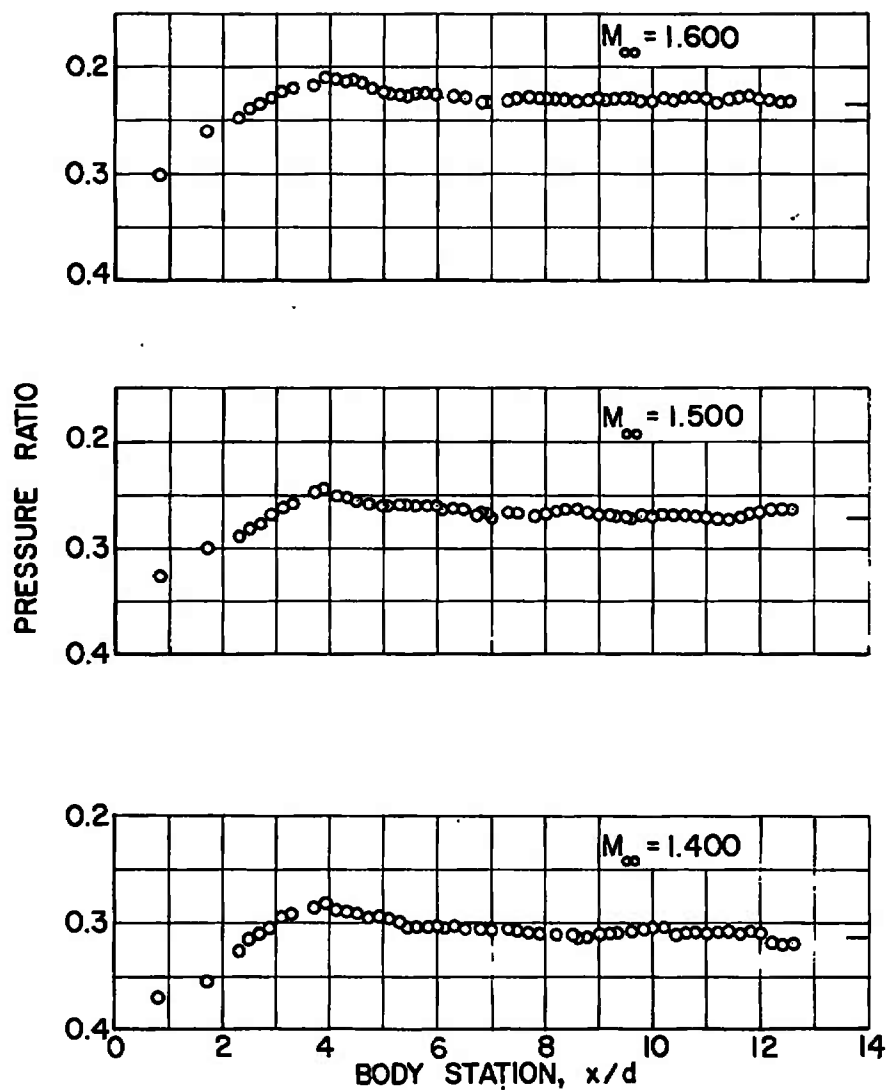
b. $M_\infty = 0.975, 1.000, 1.025, \text{ and } 1.050$

Fig. 10 Continued



c. $M_\infty = 1.100, 1.150, 1.200, \text{ and } 1.300$

Fig. 10 Continued



d. $M_\infty = 1.400, 1.500, \text{ and } 1.600$

Fig. 10 Concluded

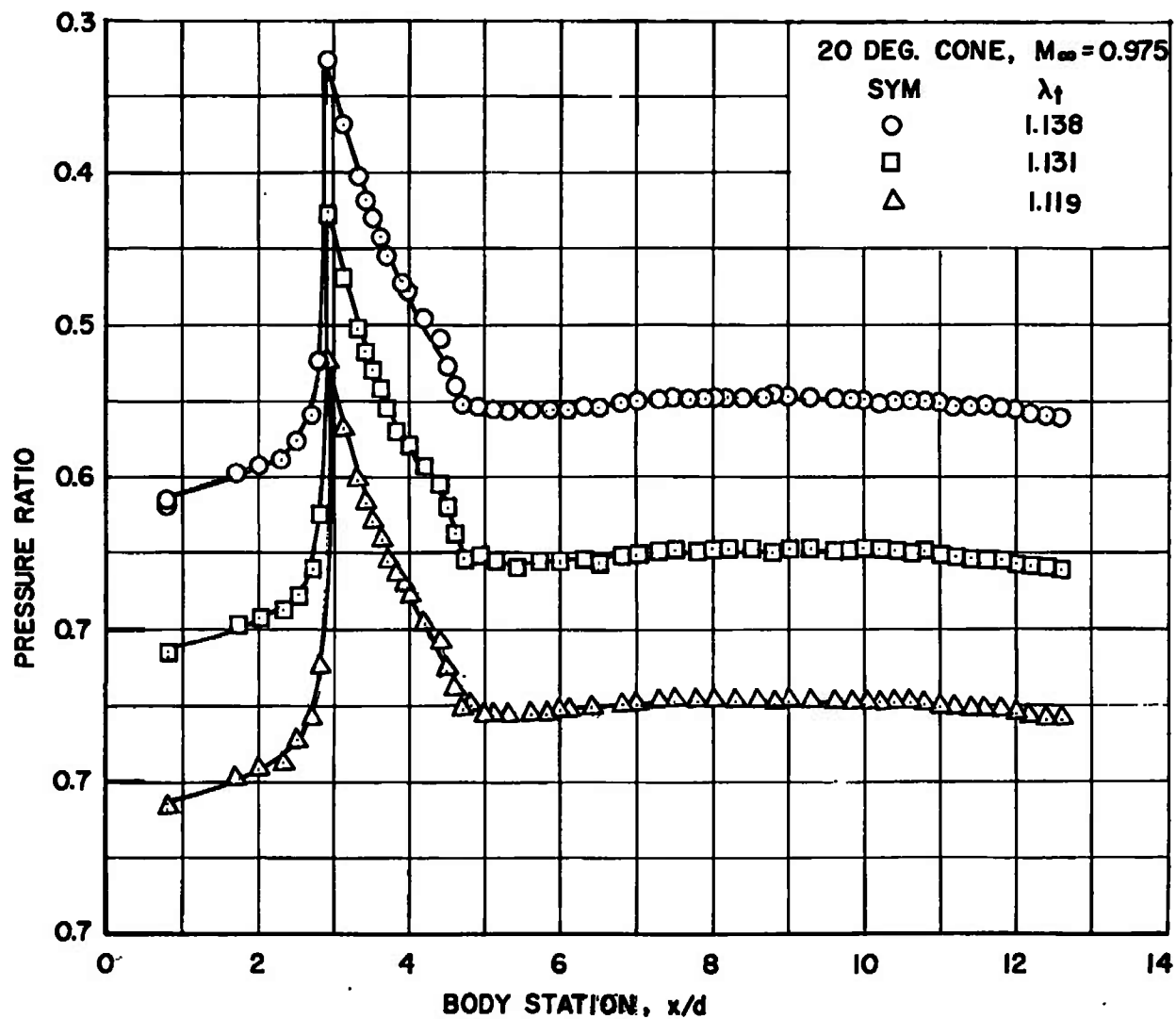


Fig. 11 Effect of Varying Test Section Pressure Ratio on the Static Pressure Distributions

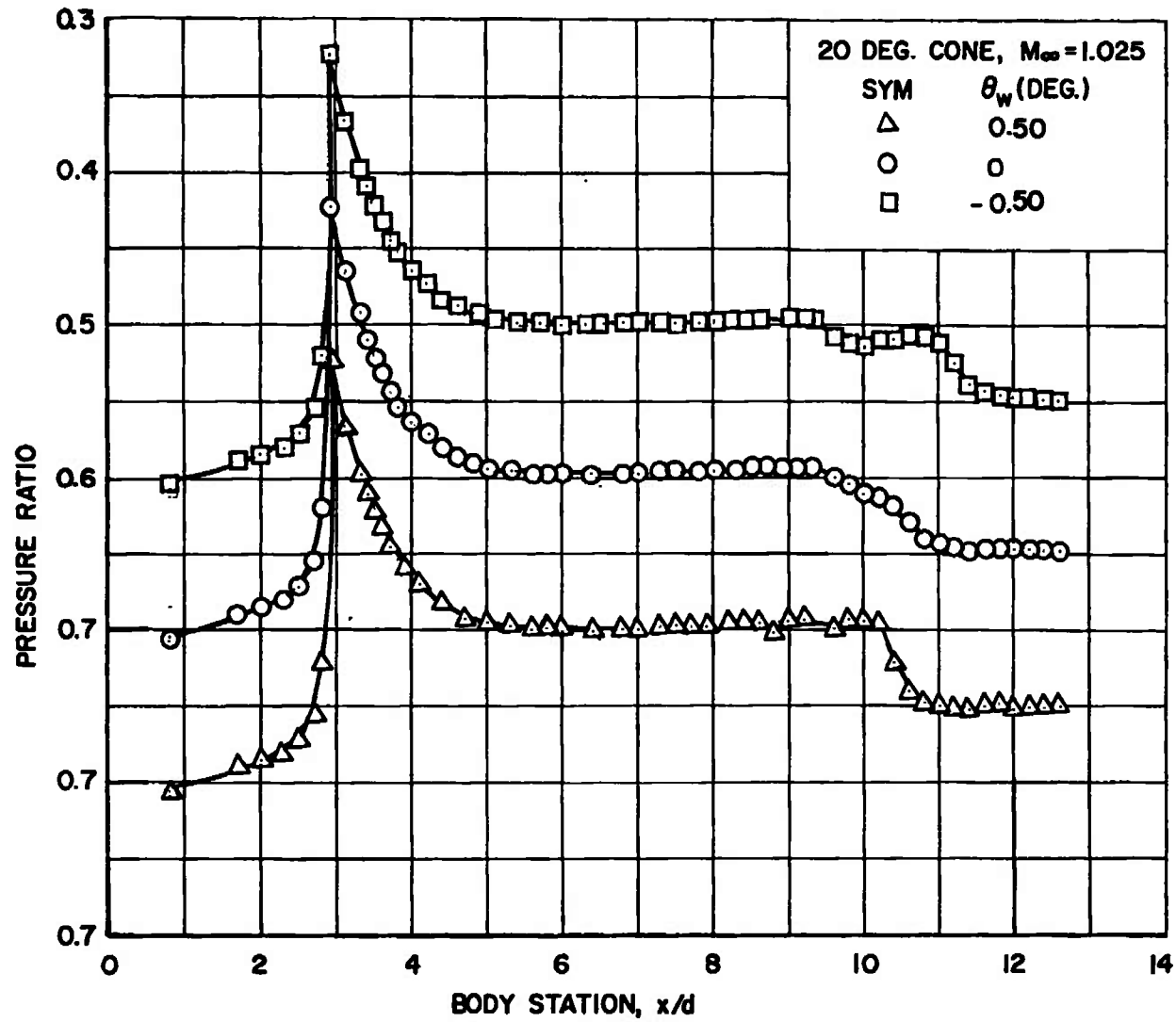


Fig. 12 Effect of Varying Test Section Wall Angle on the Static Pressure Distributions

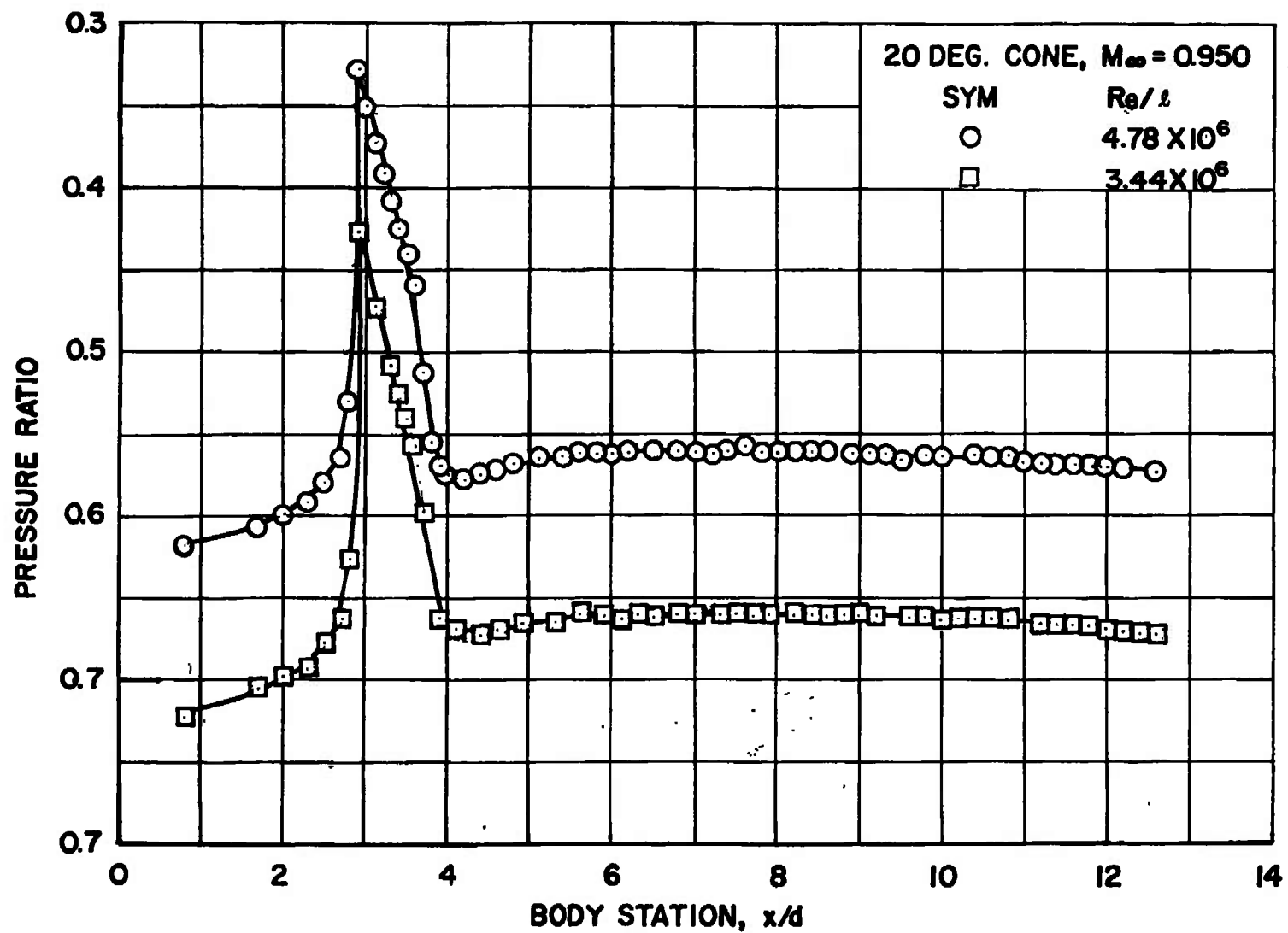


Fig. 13 Effect of Varying Unit Reynolds Number on the Static Pressure Distributions

TABLE I
20-DEG CONE-CYLINDER STATIC PRESSURE DISTRIBUTIONS
 $M_\infty = 0.6$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.8060	0.8061	0.7972	0.8020	0.7928	0.7922	0.8162	0.8031	0.8277	0.7936
0.8	0.8067	0.8072	0.8166	0.8032	0.8272	0.7931	0.7975	0.8046	0.7936	0.7963
1.4		0.8015		0.8000		0.7908		0.8005		0.7915
1.7	0.7979		0.7887		0.7821		0.8074		0.8188	
2.0	0.7923	0.7936	0.7841	0.7901	0.7772	0.7811	0.8019	0.7907	0.8132	0.7822
2.3	0.7849		0.7769		0.7707		0.7941		0.8056	
2.5	0.7751	0.7754	0.7678	0.7723	0.7598	0.6733	0.7839	0.7725	0.7953	0.6743
2.7	0.7551		0.7482		0.7440		0.7636		0.7746	
2.8	0.7166	0.7139	0.7163	0.7115	0.7107	0.7046	0.7243	0.7116	0.7358	0.7057
2.9	0.7270	0.7283	0.7248	0.7258	0.7254	0.7185	0.7313	0.7260	0.7393	0.7199
2.9	0.7281		0.7329		0.7404		0.7254		0.7256	
3.0	0.7503	0.7513	0.7490	0.7484	0.7494	0.7408	0.7535	0.7489	0.7596	0.7424
3.1	0.7599		0.7591		0.7597		0.7623		0.7676	
3.2	0.7658		0.7653		0.7661		0.7678		0.7726	
3.3	0.7693		0.7692		0.7702		0.7709		0.7755	
3.4	0.7717		0.7718		0.7728		0.7732		0.7772	
3.5	0.7734	0.7731	0.7736	0.7705	0.7750	0.7611	0.7747	0.7698	0.7787	0.7635
3.6	0.7747		0.7750		0.7764		0.7759		0.7799	
3.7	0.7770		0.7773		0.7787		0.7784		0.7822	
3.8	0.7779	0.7775	0.7779	0.7733	0.7794	0.7655	0.7791	0.7747	0.7822	0.7649
3.9	0.7790		0.7790		0.7774		0.7801		0.7839	
4.0	0.7789	0.7787	0.7791	0.7756	0.7804	0.7654	0.7800	0.7757	0.7836	0.7684
4.1	0.7786	0.7798	0.7791	0.7762	0.7805	0.7675	0.7797	0.7773	0.7829	0.7697
4.1	0.7771		0.7789		0.7801		0.7788		0.7776	
4.2	0.7790		0.7796		0.7813		0.7799		0.7837	
4.3	0.7793	0.7785	0.7801	0.7759	0.7814	0.7663	0.7806	0.7766	0.7839	0.7687
4.4	0.7801		0.7805		0.7815		0.7811		0.7843	
4.5	0.7807	0.7814	0.7810	0.7781	0.7824	0.7695	0.7816	0.7792	0.7850	0.7722
4.6	0.7806		0.7811		0.7823		0.7815		0.7850	
4.7	0.7816	0.7816	0.7818	0.7780	0.7830	0.7696	0.7826	0.7789	0.7859	0.7718
4.8	0.7806		0.7813		0.7825		0.7815		0.7851	
4.9	0.7809	0.7807	0.7814	0.7774	0.7828	0.7691	0.7822	0.7783	0.7852	0.7713
5.0	0.7815		0.7816		0.7832		0.7819		0.7854	
5.1	0.7807	0.7814	0.7813	0.7780	0.7825	0.7696	0.7815	0.7792	0.7849	0.7721
5.2	0.7813		0.7819		0.7829		0.7822		0.7855	
5.3	0.7808	0.7815	0.7815	0.7781	0.7827	0.7698	0.7815	0.7795	0.7849	0.7712
5.4	0.7814		0.7819		0.7831		0.7823		0.7856	
5.5		0.7809		0.7778		0.7686		0.7787		0.7719
5.6	0.7815		0.7817		0.7824		0.7821		0.7841	
5.7	0.7820	0.7831	0.7826	0.7797	0.7834	0.7711	0.7828	0.7803	0.7863	0.7711
5.8	0.7821		0.7825		0.7835		0.7827		0.7865	
5.9	0.7815	0.7819	0.7815	0.7785	0.7822	0.7698	0.7825	0.7783	0.7854	0.7720

6.0	0.7820		0.7825		0.7832		0.7826		0.7861	
6.1	0.7824	0.7818	0.7828	0.7782	0.7835	0.7702	0.7830	0.7794	0.7863	0.7721
6.2	0.7825		0.7828		0.7838		0.7832		0.7867	
6.3	0.7818		0.7826		0.7829		0.7823		0.7859	
6.4	0.7821		0.7825		0.7835		0.7829		0.7867	
6.5	0.7812	0.7819	0.7819	0.7790	0.7820	0.7709	0.7821	0.7797	0.7851	0.7725
6.6	0.7834		0.7837		0.7842		0.7843		0.7877	
6.7		0.7843		0.7793		0.7722		0.7802		0.7739
6.8	0.7827		0.7829		0.7839		0.7834		0.7870	
6.9	0.7826	0.7825	0.7830	0.7793	0.7842	0.7712	0.7834	0.7797	0.7868	0.7734
7.0	0.7822		0.7824		0.7837		0.7830		0.7867	
7.2	0.7820		0.7836		0.7853		0.7858		0.7883	
7.3	0.7825		0.7823		0.7830		0.7827		0.7870	
7.4	0.7824		0.7825		0.7832		0.7829		0.7867	
7.5	0.7829	0.7822	0.7831	0.7789	0.7837	0.7708	0.7833	0.7798	0.7869	0.7732
7.6										
7.7	0.7831	0.7838	0.7829	0.7807	0.7839	0.7729	0.7835	0.7814	0.7874	0.7748
7.8	0.7823		0.7825		0.7833		0.7830		0.7867	
7.9	0.7830		0.7834		0.7842		0.7839		0.7874	
8.0	0.7830		0.7832		0.7837		0.7836		0.7872	
8.1										
8.2	0.7831		0.7832		0.7837		0.7838		0.7872	
8.3	0.7824		0.7829		0.7826		0.7831		0.7867	
8.4	0.7821		0.7823		0.7826		0.7828		0.7865	
8.5	0.7825	0.7822	0.7827	0.7788	0.7826	0.7713	0.7833	0.7798	0.7865	0.7729
8.6	0.7827		0.7829		0.7816		0.7838		0.7872	
8.7	0.7829	0.7826	0.7826	0.7789	0.7830	0.7733	0.7778	0.7812	0.7876	0.7747
8.9	0.7835	0.7830	0.7835	0.7796	0.7837	0.7718	0.7839	0.7800	0.7879	0.7735
9.0	0.7841		0.7840		0.7840		0.7848		0.7886	
9.1	0.7838	0.7830	0.7838	0.7798	0.7837	0.7722	0.7845	0.7807	0.7881	0.7746
9.2	0.7838		0.7841		0.7841		0.7847		0.7885	
9.3	0.7842	0.7833	0.7840	0.7800	0.7836	0.7725	0.7850	0.7809	0.7884	0.7746
9.4	0.7834		0.7834		0.7830		0.7841		0.7879	
9.5	0.7836	0.7844	0.7835	0.7815	0.7831	0.7744	0.7854	0.7824	0.7902	0.7764
9.6	0.7828		0.7830		0.7824		0.7845		0.7874	
9.8	0.7838	0.7838	0.7841	0.7812	0.7836	0.7741	0.7851	0.7819	0.7886	0.7758
10.0	0.7845		0.7850		0.7892		0.7838		0.7840	
10.0	0.7826		0.7824		0.7832		0.7845		0.7879	
10.2	0.7841		0.7839		0.7837		0.7850		0.7893	
10.4	0.7839		0.7839		0.7829		0.7848		0.7883	
10.6	0.7851	0.7834	0.7842	0.7805	0.7845	0.7739	0.7860	0.7814	0.7897	0.7758
10.8	0.7835		0.7835		0.7827		0.7843		0.7881	
11.0	0.7853		0.7855		0.7854		0.7868		0.7906	
11.2	0.7857		0.7859		0.7856		0.7875		0.7909	
11.4	0.7858	0.7846	0.7856	0.7820	0.7855	0.7755	0.7868	0.7827	0.7906	0.7767
11.6	0.7859		0.7857		0.7854		0.7872		0.7906	
11.8	0.7861		0.7860		0.7858		0.7872		0.7904	
12.0	0.7854		0.7854		0.7850		0.7865		0.7902	
12.2	0.7861	0.7860	0.7860	0.7840	0.7865	0.7771	0.7873	0.7849	0.7909	0.7787
12.6	0.7862		0.7864		0.7867		0.7872		0.7904	

Table I (Continued)

 $M_{\infty} = 0.7$

x/d	ρ/ρ_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.7498	0.7503	0.7395	0.7440	0.7342	0.7346	0.7620	0.7433	0.7772	0.7360
0.8	0.7507	0.7512	0.7638	0.7473	0.7788	0.7362	0.7388	0.7480	0.7349	0.7390
1.4		0.7461		0.7430		0.7307		0.7425		0.7313
1.7	0.7390		0.7290		0.7200		0.7508		0.7659	
2.0	0.7322	0.7338	0.7221	0.7298	0.7135	0.7177	0.7437	0.7295	0.7588	0.7197
2.3	0.7228		0.7129		0.7047		0.7343		0.7491	
2.5	0.7100	0.7102	0.7005	0.7069	0.6928	0.6050	0.7194	0.7067	0.7366	0.6061
2.7	0.6828		0.6740		0.6680		0.6940		0.7092	
2.8	0.6292	0.6263	0.6224	0.6241	0.6199	0.6155	0.6402	0.6238	0.6557	0.6162
2.9	0.6435	0.6448	0.6423	0.6425	0.6425	0.6329	0.6482	0.6425	0.6584	0.6344
2.9	0.6452		0.6519		0.6608		0.6410		0.6423	
3.0	0.6761	0.6776	0.6757	0.6744	0.6761	0.6646	0.6794	0.6743	0.6868	0.6661
3.1	0.6895		0.6895		0.6904		0.6919		0.6984	
3.2	0.6972		0.6977		0.6988		0.6990		0.7053	
3.3	0.7018		0.7023		0.7038		0.7034		0.7090	
3.4	0.7051		0.7057		0.7074		0.7062		0.7116	
3.5	0.7072	0.7067	0.7082	0.7029	0.7095	0.6925	0.7083	0.7030	0.7135	0.6944
3.6	0.7089		0.7101		0.7118		0.7104		0.7153	
3.7	0.7121		0.7130		0.7146		0.7132		0.7183	
3.8	0.7126	0.7121	0.7139	0.7089	0.7157	0.6975	0.7136	0.7085	0.7186	0.6994
3.9	0.7142		0.7150		0.7170		0.7152		0.7201	
4.0	0.7143	0.7140	0.7153	0.7105	0.7171	0.6995	0.7153	0.7108	0.7202	0.7009
4.1	0.7139	0.7150	0.7151	0.7115	0.7170	0.7011	0.7150	0.7118	0.7197	0.7025
4.1	0.7117		0.7117		0.7126		0.7130		0.7141	
4.2	0.7143		0.7161		0.7177		0.7154		0.7201	
4.3	0.7155	0.7140	0.7162	0.7110	0.7184	0.6996	0.7161	0.7114	0.7208	0.7018
4.4	0.7154		0.7168		0.7180		0.7167		0.7213	
4.5	0.7167	0.7180	0.7179	0.7142	0.7192	0.7031	0.7176	0.7145	0.7222	0.7061
4.6	0.7166		0.7178		0.7192		0.7174		0.7220	
4.7	0.7178	0.7168	0.7186	0.7133	0.7204	0.7020	0.7187	0.7134	0.7234	0.7045
4.8	0.7168		0.7180		0.7195		0.7179		0.7224	
4.9	0.7165	0.7173	0.7176	0.7138	0.7200	0.7030	0.7180	0.7136	0.7229	0.7049
5.0	0.7178		0.7189		0.7198		0.7186		0.7229	
5.1	0.7169	0.7179	0.7183	0.7144	0.7196	0.7030	0.7175	0.7145	0.7222	0.7054
5.2	0.7175		0.7187		0.7200		0.7183		0.7230	
5.3	0.7170	0.7183	0.7184	0.7145	0.7193	0.7034	0.7179	0.7146	0.7224	0.7061
5.4	0.7178		0.7192		0.7203		0.7189		0.7234	
5.5		0.7174		0.7139		0.7030		0.7142		0.7060
5.6	0.7163		0.7174		0.7195		0.7181		0.7216	
5.7	0.7184	0.7193	0.7196	0.7158	0.7208	0.7047	0.7193	0.7159	0.7237	0.7066
5.8	0.7185		0.7195		0.7207		0.7192		0.7236	
5.9	0.7179	0.7181	0.7186	0.7146	0.7196	0.7044	0.7179	0.7147	0.7227	0.7055

6.0	0.7184		0.7196		0.7205		0.7191		0.7238	
6.1	0.7192	0.7181	0.7200	0.7149	0.7212	0.7047	0.7199	0.7147	0.7241	0.7063
6.2	0.7187		0.7199		0.7209		0.7196		0.7242	
6.3	0.7181		0.7193		0.7205		0.7196		0.7242	
6.4	0.7189		0.7201		0.7212		0.7196		0.7234	
6.5	0.7179	0.7184	0.7188	0.7154	0.7197	0.7050	0.7188	0.7147	0.7226	0.7061
6.6	0.7198		0.7212		0.7216		0.7207		0.7254	
6.7		0.7192		0.7162		0.7060		0.7163		0.7083
6.8	0.7192		0.7201		0.7212		0.7200		0.7245	
6.9	0.7192	0.7187	0.7204	0.7155	0.7214	0.7053	0.7201	0.7150	0.7245	0.7075
7.0	0.7189		0.7198		0.7215		0.7202		0.7245	
7.2	0.7214		0.7221		0.7232		0.7198		0.7260	
7.3	0.7183		0.7199		0.7209		0.7198		0.7243	
7.4	0.7187		0.7200		0.7204		0.7197		0.7242	
7.5	0.7191	0.7188	0.7203	0.7156	0.7207	0.7052	0.7200	0.7153	0.7244	0.7077
7.6										
7.7	0.7194	0.7204	0.7205	0.7174	0.7218	0.7076	0.7203	0.7172	0.7252	0.7092
7.8	0.7190		0.7197		0.7205		0.7198		0.7247	
7.9	0.7197		0.7208		0.7214		0.7206		0.7254	
8.0	0.7217		0.7206		0.7207		0.7203		0.7249	
8.1										
8.2	0.7196		0.7206		0.7209		0.7205		0.7252	
8.3	0.7196		0.7203		0.7198		0.7196		0.7249	
8.4	0.7190		0.7202		0.7199		0.7199		0.7245	
8.5	0.7191	0.7193	0.7201	0.7158	0.7200	0.7065	0.7202	0.7159	0.7247	0.7076
8.6	0.7191		0.7206		0.7188		0.7203		0.7251	
8.7	0.7205	0.7204	0.7210	0.7178	0.7199	0.7088	0.7207	0.7175	0.7254	0.7091
8.9	0.7204	0.7190	0.7208	0.7161	0.7210	0.7062	0.7208	0.7161	0.7256	0.7084
9.0	0.7209		0.7216		0.7214		0.7217		0.7265	
9.1	0.7207	0.7198	0.7214	0.7167	0.7205	0.7071	0.7216	0.7168	0.7261	0.7096
9.2	0.7209		0.7216		0.7213		0.7220		0.7263	
9.3	0.7211	0.7199	0.7219	0.7169	0.7213	0.7072	0.7215	0.7170	0.7265	0.7093
9.4	0.7203		0.7210		0.7205		0.7212		0.7261	
9.5	0.7217	0.7217	0.7224	0.7184	0.7203	0.7088	0.7214	0.7185	0.7258	0.7116
9.6	0.7201		0.7208		0.7198		0.7210		0.7256	
9.8	0.7211	0.7214	0.7219	0.7179	0.7211	0.7096	0.7220	0.7185	0.7268	0.7113
10.0	0.7216		0.7238		0.7278		0.7205		0.7215	
10.0	0.7200		0.7212		0.7199		0.7212		0.7260	
10.2	0.7212		0.7219		0.7214		0.7221		0.7268	
10.4	0.7211		0.7220		0.7208		0.7222		0.7267	
10.6	0.7221	0.7204	0.7228	0.7175	0.7216	0.7088	0.7232	0.7178	0.7270	0.7110
10.8	0.7208		0.7214		0.7206		0.7220		0.7274	
11.0	0.7233		0.7240		0.7233		0.7248		0.7295	
11.2	0.7237		0.7231		0.7226		0.7251		0.7302	
11.4	0.7234	0.7220	0.7240	0.7195	0.7234	0.7110	0.7246	0.7193	0.7295	0.7122
11.6	0.7234		0.7243		0.7237		0.7251		0.7297	
11.8	0.7238		0.7247		0.7241		0.7248		0.7294	
12.0	0.7234		0.7242		0.7232		0.7246		0.7293	
12.2	0.7242	0.7244	0.7252	0.7212	0.7251	0.7136	0.7257	0.7210	0.7306	0.7153
12.6	0.7244		0.7256		0.7257		0.7253		0.7299	

Table I (Continued)
 $M_\infty = 0.8$

x/d	P/P _t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-3$
0.8	0.6938	0.6949	0.6811	0.6898	0.6739	0.6808	0.7095	0.6919	0.7270	0.6797
0.8	0.6956	0.6964	0.7105	0.6936	0.7258	0.6812	0.6824	0.6927	0.6782	0.6842
1.4		0.6906		0.6849		0.6696		-0.6867		0.6735
1.7	0.6815		0.6684		0.6559		0.6966		0.7139	
2.0	0.6732	0.6749	0.6600	0.6691	0.6478	0.6540	0.6882	0.6713	0.7057	0.6584
2.3	0.6622		0.6491		0.6373		0.6773		0.6945	
2.5	0.6469	0.6480	0.6334	0.6428	0.6215	0.5379	0.6623	0.6446	0.6791	0.5414
2.7	0.6197		0.6074		0.5948		0.6335		0.6492	
2.8	0.5692	0.5668	0.5565	0.5624	0.5453	0.5506	0.5822	0.5638	0.5962	0.5538
2.9	0.4518	0.4443	0.4766	0.4534	0.5022	0.4499	0.4910	0.4630	0.5503	0.4659
2.9	0.4411		0.4766		0.5343		0.4702		0.5142	
3.0	0.6109	0.6126	0.6079	0.6069	0.6045	0.5924	0.6135	0.6093	0.6165	0.5972
3.1	0.6231		0.6223		0.6214		0.6246		0.6291	
3.2	0.6301		0.6302		0.6302		0.6319		0.6366	
3.3	0.6350		0.6349		0.6358		0.6368		0.6416	
3.4	0.6383		0.6387		0.6398		0.6403		0.6452	
3.5	0.6408	0.6401	0.6415	0.6352	0.6423	0.6209	0.6428	0.6369	0.6475	0.6249
3.6	0.6431		0.6438		0.6449		0.6452		0.6499	
3.7	0.6464		0.6466		0.6478		0.6484		0.6533	
3.8	0.6475	0.6467	0.6479	0.6413	0.6490	0.6270	0.6495	0.6435	0.6544	0.6316
3.9	0.6490		0.6490		0.6500		0.6510		0.6557	
4.0	0.6492	0.6485	0.6495	0.6436	0.6506	0.6293	0.6513	0.6447	0.6559	0.6338
4.1	0.6488	0.6501	0.6493	0.6449	0.6504	0.6298	0.6507	0.6471	0.6553	0.6354
4.1	0.6451		0.6471		0.6502		0.6476		0.6508	
4.2	0.6492		0.6501		0.6511		0.6512		0.6559	
4.3	0.6508	0.6501	0.6510	0.6439	0.6519	0.6299	0.6527	0.6464	0.6569	0.6358
4.4	0.6503		0.6514		0.6518		0.6526		0.6568	
4.5	0.6519	0.6528	0.6522	0.6476	0.6530	0.6331	0.6537	0.6504	0.6586	0.6392
4.6	0.6516		0.6525		0.6532		0.6536		0.6582	
4.7	0.6532	0.6511	0.6535	0.6459	0.6544	0.6307	0.6553	0.6484	0.6602	0.6366
4.8	0.6521		0.6528		0.6533		0.6542		0.6589	
4.9	0.6518	0.6526	0.6528	0.6475	0.6533	0.6334	0.6544	0.6497	0.6592	0.6384
5.0	0.6531		0.6536		0.6542		0.6549		0.6597	
5.1	0.6522	0.6533	0.6532	0.6478	0.6533	0.6332	0.6541	0.6503	0.6588	0.6391
5.2	0.6528		0.6535		0.6537		0.6547		0.6594	
5.3	0.6524	0.6531	0.6533	0.6482	0.6532	0.6337	0.6543	0.6400	0.6589	0.6393
5.4	0.6534		0.6539		0.6540		0.6553		0.6599	
5.5		0.6528		0.6473		0.6333		0.6501		0.6394
5.6	0.6530		0.6523		0.6532		0.6537		0.6584	
5.7	0.6538	0.6544	0.6544	0.6493	0.6542	0.6353	0.6559	0.6520	0.6606	0.6401
5.8	0.6539		0.6542		0.6541		0.6558		0.6606	
5.9	0.6533	0.6540	0.6535	0.6488	0.6530	0.6352	0.6553	0.6508	0.6593	0.6392...

6.0	0.6540		0.6543		0.6540		0.6556		0.6603	
6.1	0.6546	0.6532	0.6549	0.6481	0.6547	0.6356	0.6565	0.6508	0.6609	0.6390
6.2	0.6543		0.6546		0.6543		0.6564		0.6610	
6.3	0.6537		0.6542		0.6543		0.6560		0.6604	
6.4	0.6541		0.6544		0.6542		0.6560		0.6608	
6.5	0.6533	0.6540	0.6535	0.6494	0.6532	0.6355	0.6551	0.6508	0.6599	0.6401
6.6	0.6550		0.6557		0.6552		0.6569		0.6622	
6.7		0.6543		0.6504		0.6379		0.6524		0.6428
6.8	0.6549		0.6550		0.6545		0.6568		0.6617	
6.9	0.6548	0.6543	0.6551	0.6497	0.6547	0.6361	0.6569	0.6511	0.6615	0.6407
7.0	0.6547		0.6551		0.6553		0.6568		0.6617	
7.2	0.6570		0.6557		0.6570		0.6586		0.6626	
7.3	0.6545		0.6552		0.6538		0.6568		0.6620	
7.4	0.6547		0.6549		0.6532		0.6566		0.6612	
7.5	0.6551	0.6544	0.6552	0.6492	0.6540	0.6363	0.6570	0.6520	0.6615	0.6419
7.6										
7.7	0.6556	0.6562	0.6557	0.6516	0.6553	0.6389	0.6577	0.6535	0.6629	0.6435
7.8	0.6550		0.6548		0.6543		0.6571		0.6620	
7.9	0.6557		0.6557		0.6549		0.6576		0.6624	
8.0	0.6553		0.6568		0.6542		0.6573		0.6620	
8.1										
8.2	0.6556		0.6557		0.6545		0.6573		0.6624	
8.3	0.6557		0.6554		0.6538		0.6566		0.6622	
8.4	0.6553		0.6553		0.6539		0.6569		0.6617	
8.5	0.6554	0.6549	0.6554	0.6500	0.6540	0.6378	0.6573	0.6511	0.6622	0.6416
8.6	0.6556		0.6552		0.6544		0.6577		0.6620	
8.7	0.6558	0.6563	0.6558	0.6525	0.6542	0.6410	0.6579	0.6542	0.6628	0.6450
8.9	0.6560	0.6549	0.6562	0.6508	0.6550	0.6386	0.6583	0.6522	0.6629	0.6426
9.0	0.6567		0.6569		0.6559		0.6590		0.6638	
9.1	0.6564	0.6559	0.6564	0.6512	0.6551	0.6387	0.6586	0.6537	0.6629	0.6441
9.2	0.6569		0.6567		0.6558		0.6593		0.6642	
9.3	0.6572	0.6560	0.6570	0.6514	0.6553	0.6391	0.6592	0.6534	0.6638	0.6439
9.4	0.6564		0.6564		0.6549		0.6585		0.6636	
9.5	0.6568	0.6578	0.6571	0.6532	0.6552	0.6407	0.6589	0.6554	0.6636	0.6461
9.6	0.6562		0.6559		0.6545		0.6585		0.6633	
9.8	0.6574	0.6575	0.6572	0.6534	0.6557	0.6412	0.6597	0.6551	0.6645	0.6455
10.0	0.6575		0.6614		0.6631		0.6586		0.6581	
10.0	0.6567		0.6568		0.6549		0.6595		0.6642	
10.2	0.6577		0.6575		0.6563		0.6603		0.6653	
10.4	0.6576		0.6573		0.6554		0.6598		0.6649	
10.6	0.6585	0.6566	0.6581	0.6525	0.6565	0.6410	0.6611	0.6545	0.6656	0.6458
10.8	0.6574		0.6572		0.6554		0.6599		0.6658	
11.0	0.6600		0.6596		0.6586		0.6625		0.6676	
11.2	0.6589		0.6603		0.6576		0.6634		0.6683	
11.4	0.6600	0.6587	0.6600	0.6548	0.6586	0.6437	0.6628	0.6565	0.6679	0.6472
11.6	0.6605		0.6605		0.6593		0.6632		0.6683	
11.8	0.6609		0.6607		0.6590		0.6628		0.6679	
12.0	0.6604		0.6604		0.6587		0.6630		0.6680	
12.2	0.6618	0.6624	0.6619	0.6581	0.6611	0.6471	0.6646	0.6605	0.6697	0.6519
12.6	0.6625		0.6630		0.6624		0.6646		0.6694	

Table I (Continued).

 $M_{\infty} = 0.9$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.6410	0.6424	0.6274	0.6408	0.6209	0.6307	0.6579	0.6383	0.6796	0.6338
0.8	0.6428	0.6432	0.6599	0.6437	0.6804	0.6324	0.6281	0.6409	0.6228	0.6380
1.4		0.6387		0.6332		0.6176		0.6330		0.6209
1.7	0.6285		0.6138		0.6016		0.6444		0.6659	
2.0	0.6197	0.6219	0.6054	0.6162	0.5934	0.6010	0.6362	0.6168	0.6573	0.6051
2.3	0.6102		0.5958		0.5839		0.6268		0.6475	
2.5	0.5991	0.5991	0.5824	0.5933	0.5725	0.5778	0.6151	0.5938	0.6325	0.5816
2.7	0.5778		0.5630		0.5511		0.5931		0.6098	
2.8	0.5388	0.5368	0.5235	0.5321	0.5112	0.5188	0.5528	0.5334	0.5674	0.5235
2.9	0.3333	0.3347	0.3268	0.3299	0.3217	0.3199	0.3427	0.3314	0.3556	0.3240
2.9	0.3334		0.3428		0.3553		0.3263		0.3214	
3.0	0.3608	0.3694	0.3498	0.3658	0.3442	0.3569	0.3771	0.3661	0.4005	0.3596
3.1	0.3872		0.3767		0.4344		0.4084		0.4420	
3.2	0.4985		0.5216		0.5326		0.4802		0.5586	
3.3	0.5731		0.5687		0.5635		0.5738		0.5861	
3.4	0.5934		0.5900		0.5846		0.5921		0.5909	
3.5	0.5972	0.5964	0.5970	0.5901	0.5950	0.5696	0.5945	0.5909	0.5924	0.5750
3.6	0.5954		0.5970		0.5984		0.5931		0.5927	
3.7	0.5947		0.5963		0.6000		0.5938		0.5952	
3.8	0.5927	0.5916	0.5947	0.5859	0.5989	0.5687	0.5920	0.5869	0.5949	0.5741
3.9	0.5915		0.5933		0.5980		0.5920		0.5956	
4.0	0.5904	0.5899	0.5916	0.5842	0.5959	0.5689	0.5907	0.5850	0.5955	0.5745
4.1	0.5884	0.5899	0.5901	0.5340	0.5943	0.5689	0.5888	0.5850	0.5943	0.5731
4.1	0.5855		0.5864		0.5910		0.5879		0.5930	
4.2	0.5880		0.5896		0.5938		0.5885		0.5947	
4.3	0.5887	0.5881	0.5903	0.5824	0.5941	0.5666	0.5897	0.5827	0.5963	0.5714
4.4	0.5884		0.5898		0.5930		0.5889		0.5957	
4.5	0.5891	0.5908	0.5902	0.5853	0.5937	0.5703	0.5900	0.5861	0.5968	0.5756
4.6	0.5888		0.5899		0.5933		0.5896		0.5966	
4.7	0.5906	0.5869	0.5915	0.5817	0.5947	0.5670	0.5920	0.5825	0.5985	0.5716
4.8	0.5887		0.5899		0.5931		0.5899		0.5972	
4.9	0.5888	0.5890	0.5902	0.5842	0.5930	0.5700	0.5895	0.5844	0.5972	0.5740
5.0	0.5890		0.5906		0.5934		0.5902		0.5977	
5.1	0.5885	0.5894	0.5899	0.5842	0.5923	0.5696	0.5892	0.5847	0.5968	0.5742
5.2	0.5889		0.5901		0.5927		0.5896		0.5972	
5.3	0.5885	0.5892	0.5898	0.5731	0.5922	0.5696	0.5896	0.5843	0.5968	0.5741
5.4	0.5895		0.5904		0.5928		0.5904		0.5979	
5.5		0.5886		0.5834		0.5694		0.5842		0.5747
5.6	0.5891		0.5907		0.5921		0.5884		0.5960	
5.7	0.5898	0.5897	0.5908	0.5854	0.5927	0.5711	0.5906	0.5853	0.5983	0.5754
5.8	0.5898		0.5909		0.5926		0.5905		0.5982	
5.9	0.5894	0.5896	0.5900	0.5844	0.5915	0.5715	0.5900	0.5846	0.5973	0.5745

6.0	0.5897		0.5908		0.5922		0.5904		0.5988	
6.1	0.5903	0.5896	0.5916	0.5850	0.5926	0.5717	0.5910	0.5850	0.5988	0.5749
6.2	0.5900		0.5911		0.5927		0.5909		0.5988	
6.3	0.5896		0.5905		0.5917		0.5903		0.5988	
6.4	0.5904		0.5918		0.5920		0.5907		0.5991	
6.5	0.5891	0.5901	0.5901	0.5849	0.5908	0.5713	0.5901	0.5852	0.5974	0.5753
6.6	0.5911		0.5924		0.5930		0.5916		0.6004	
6.7		0.5904		0.5860		0.5745		0.5860		0.5780
6.8	0.5906		0.5915		0.5923		0.5915		0.6002	
6.9	0.5905	0.5902	0.5914	0.5852	0.5921	0.5722	0.5912	0.5855	0.5995	0.5757
7.0	0.5908		0.5912		0.5924		0.5921		0.6000	
7.2	0.5929		0.5940		0.5948		0.5931		0.6020	
7.3	0.5908		0.5911		0.5916		0.5909		0.6000	
7.4	0.5905		0.5912		0.5918		0.5913		0.5995	
7.5	0.5906	0.5902	0.5915	0.5853	0.5918	0.5727	0.5915	0.5858	0.5997	0.5767
7.6										
7.7	0.5920	0.5921	0.5924	0.5931	0.5934	0.5750	0.5931	0.5874	0.6013	0.5788
7.8	0.5913		0.5916		0.5923		0.5923		0.6004	
7.9	0.5916		0.5923		0.5925		0.5925		0.6006	
8.0	0.5911		0.5918		0.5918		0.5920		0.6000	
8.1										
8.2	0.5910		0.5920		0.5920		0.5922		0.6004	
8.3	0.5844		0.5913		0.5911		0.5913		0.5995	
8.4	0.5909		0.5914		0.5910		0.5916		0.5997	
8.5	0.5913	0.5889	0.5915	0.5869	0.5918	0.5742	0.5920	0.5853	0.6004	0.5772
8.6	0.5911		0.5920		0.5918		0.5925		0.6004	
8.7	0.5919	0.5921	0.5924	0.5891	0.5926	0.5765	0.5929	0.5886	0.6014	0.5797
8.9	0.5922	0.5913	0.5927	0.5880	0.5930	0.5750	0.5932	0.5866	0.6020	0.5782
9.0	0.5928		0.5934		0.5937		0.5939		0.6025	
9.1	0.5924	0.5920	0.5929	0.5876	0.5929	0.5750	0.5932	0.5878	0.6018	0.5796
9.2	0.5933		0.5935		0.5938		0.5942		0.6027	
9.3	0.5931	0.5921	0.5935	0.5878	0.5933	0.5754	0.5940	0.5878	0.6024	0.5805
9.4	0.5927		0.5931		0.5930		0.5936		0.6023	
9.5	0.5934	0.5931	0.5934	0.5887	0.5935	0.5771	0.5954	0.5895	0.6047	0.5822
9.6	0.5925		0.5929		0.5928		0.5936		0.6020	
9.8	0.5935	0.5934	0.5940	0.5887	0.5942	0.5770	0.5943	0.5895	0.6032	0.5810
10.0	0.5940		0.5967		0.6026		0.5929		0.5961	
10.0	0.5935		0.5940		0.5938		0.5947		0.6029	
10.2	0.5947		0.5949		0.5952		0.5966		0.6047	
10.4	0.5943		0.5946		0.5948		0.5955		0.6042	
10.6	0.5951	0.5932	0.5954	0.5894	0.5961	0.5782	0.5965	0.5894	0.6048	0.5819
10.8	0.5943		0.5948		0.5948		0.5957		0.6049	
11.0	0.5970		0.5972		0.5985		0.5982		0.6068	
11.2	0.5959		0.5981		0.5994		0.5993		0.6079	
11.4	0.5974	0.5956	0.5979	0.5920	0.5991	0.5814	0.5991	0.5912	0.6075	0.5836
11.6	0.5980		0.5986		0.6000		0.5997		0.6081	
11.8	0.5982		0.5990		0.5998		0.5998		0.6079	
12.0	0.5986		0.5995		0.6001		0.6000		0.6083	
12.2	0.6002	0.6001	0.6009	0.5969	0.6028	0.5862	0.6020	0.5963	0.6102	0.5899
12.6	0.6015		0.6024		0.6048		0.6018		0.6104	

Table I (Continued)

 $M_\infty = 0.95$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.6193	0.6206	0.6048	0.6224	0.5968	0.6075	0.6369	0.6184	0.6377	0.6077
0.8	0.6202	0.6220	0.6384	0.6241	0.6589	0.6098	0.6051	0.6215	0.5988	0.6128
1.4		0.6178		0.6110		0.5945		0.6119		0.5949
1.7	0.6075		0.5918		0.5785		0.6245		0.6452	
2.0	0.5999	0.6025	0.5843	0.5962	0.5709	0.5790	0.6171	0.5966	0.6376	0.5804
2.3	0.5920		0.5761		0.5630		0.6093		0.6294	
2.5	0.5805	0.5841	0.5644	0.5774	0.5540	0.5591	0.5980	0.5779	0.6190	0.5605
2.7	0.5650		0.5494		0.5367		0.5810		0.5981	
2.8	0.5304	0.5293	0.5138	0.5234	0.5003	0.5079	0.5447	0.5243	0.5597	0.5094
2.9	0.3275	0.3295	0.3212	0.3239	0.3148	0.3119	0.3363	0.3244	0.3476	0.3132
2.9	0.3276		0.3368		0.3473		0.3208		0.3153	
3.0	0.3501	0.3587	0.3405	0.3542	0.3350	0.3431	0.3646	0.3540	0.3847	0.3432
3.1	0.3718		0.3595		0.3500		0.3906		0.4156	
3.2	0.3910		0.3772		0.3683		0.4115		0.4385	
3.3	0.4080		0.3942		0.3836		0.4282		0.4548	
3.4	0.4246		0.4128		0.4099		0.4424		0.4670	
3.5	0.4400	0.4397	0.4368	0.4358	0.4612	0.4218	0.4539	0.4347	0.4753	0.4233
3.6	0.4588		0.4870		0.5127		0.4637		0.4819	
3.7	0.5130		0.5374		0.5425		0.4751		0.4892	
3.8	0.5545	0.5468	0.5592	0.5431	0.5587	0.5209	0.5039	0.5299	0.4950	0.5326
3.9	0.5698		0.5706		0.5695		0.5554		0.5385	
4.0	0.5752	0.5734	0.5757	0.5672	0.5756	0.5495	0.5690	0.5656	0.5673	0.5530
4.1	0.5764	0.5782	0.5774	0.5712	0.5784	0.5527	0.5728	0.5712	0.5728	0.5554
4.1	0.5721		0.5669		0.5628		0.5750		0.5792	
4.2	0.5766		0.5779		0.5799		0.5745		0.5755	
4.3	0.5763	0.5771	0.5777	0.5704	0.5801	0.5512	0.5756	0.5704	0.5775	0.5531
4.4	0.5751		0.5766		0.5792		0.5746		0.5767	
4.5	0.5741	0.5764	0.5750	0.5690	0.5782	0.5517	0.5743	0.5715	0.5769	0.5544
4.6	0.5723		0.5734		0.5762		0.5729		0.5755	
4.7	0.5723	0.5702	0.5729	0.5628	0.5760	0.5451	0.5735	0.5648	0.5769	0.5478
4.8	0.5692		0.5701		0.5739		0.5703		0.5747	
4.9	0.5678	0.5689	0.5687	0.5624	0.5711	0.5455	0.5691	0.5635	0.5724	0.5477
5.0	0.5675		0.5683		0.5708		0.5685		0.5722	
5.1	0.5653	0.5670	0.5660	0.5599	0.5688	0.5433	0.5666	0.5613	0.5712	0.5460
5.2	0.5646		0.5655		0.5676		0.5657		0.5701	
5.3	0.5634	0.5646	0.5646	0.5576	0.5665	0.5424	0.5644	0.5597	0.5692	0.5446
5.4	0.5635		0.5644		0.5667		0.5648		0.5705	
5.5		0.5633		0.5570		0.5401		0.5575		0.5434
5.6	0.5619		0.5627		0.5648		0.5631		0.5687	
5.7	0.5625	0.5636	0.5632	0.5576	0.5649	0.5419	0.5634	0.5576	0.5687	0.5440
5.8	0.5621		0.5628		0.5644		0.5630		0.5683	
5.9	0.5610	0.5613	0.5620	0.5558	0.5633	0.5402	0.5621	0.5564	0.5674	0.5424

6.0	0.5620		0.5621		0.5640		0.5621		0.5673	
6.1	0.5624	0.5612	0.5624	0.5556	0.5640	0.5406	0.5626	0.5558	0.5678	0.5425
6.2	0.5616		0.5619		0.5633		0.5619		0.5673	
6.3	0.5617		0.5617		0.5633		0.5615		0.5667	
6.4	0.5617		0.5615		0.5624		0.5614		0.5669	
6.5	0.5606	0.5611	0.5607	0.5550	0.5618	0.5397	0.5606	0.5548	0.5659	0.5421
6.6	0.5623		0.5624		0.5637		0.5626		0.5678	
6.7		0.5613		0.5571		0.5432		0.5572		0.5443
6.8	0.5614		0.5616		0.5628		0.5618		0.5674	
6.9	0.5610	0.5603	0.5611	0.5553	0.5622	0.5398	0.5614	0.5545	0.5667	0.5412
7.0	0.5613		0.5614		0.5625		0.5618		0.5674	
7.2	0.5625		0.5623		0.5640		0.5634		0.5689	
7.3	0.5612		0.5608		0.5621		0.5612		0.5664	
7.4	0.5606		0.5609		0.5612		0.5611		0.5667	
7.5	0.5607	0.5603	0.5611	0.5546	0.5614	0.5400	0.5614	0.5549	0.5666	0.5429
7.6										
7.7	0.5620	0.5622	0.5619	0.5567	0.5625	0.5426	0.5627	0.5570	0.5678	0.5445
7.8	0.5612		0.5613		0.5615		0.5619		0.5674	
7.9	0.5615		0.5617		0.5615		0.5621		0.5676	
8.0	0.5612		0.5613		0.5608		0.5616		0.5669	
8.1										
8.2	0.5614		0.5616		0.5608		0.5621		0.5676	
8.3	0.5605		0.5614		0.5573		0.5612		0.5673	
8.4	0.5610		0.5613		0.5602		0.5612		0.5665	
8.5	0.5609	0.5609	0.5614	0.5548	0.5601	0.5415	0.5616	0.5546	0.5673	0.5429
8.6	0.5611		0.5601		0.5600		0.5621		0.5678	
8.7	0.5616	0.5614	0.5616	0.5579	0.5607	0.5438	0.5627	0.5574	0.5680	0.5455
8.9	0.5621	0.5608	0.5620	0.5551	0.5610	0.5420	0.5628	0.5557	0.5682	0.5442
9.0	0.5628		0.5626		0.5615		0.5633		0.5691	
9.1	0.5619	0.5616	0.5621	0.5566	0.5607	0.5426	0.5628	0.5569	0.5678	0.5453
9.2	0.5629		0.5627		0.5616		0.5636		0.5692	
9.3	0.5627	0.5617	0.5620	0.5568	0.5609	0.5433	0.5634	0.5568	0.5687	0.5452
9.4	0.5624		0.5624		0.5606		0.5632		0.5690	
9.5	0.5664	0.5632	0.5624	0.5577	0.5606	0.5441	0.5630	0.5583	0.5689	0.5465
9.6	0.5621		0.5622		0.5601		0.5628		0.5685	
9.8	0.5636	0.5632	0.5634	0.5577	0.5616	0.5440	0.5641	0.5575	0.5697	0.5465
10.0	0.5632		0.5655		0.5715		0.5625		0.5618	
10.0	0.5636		0.5635		0.5618		0.5643		0.5706	
10.2	0.5642		0.5640		0.5626		0.5651		0.5712	
10.4	0.5640		0.5638		0.5617		0.5646		0.5707	
10.6	0.5654	0.5636	0.5651	0.5587	0.5634	0.5460	0.5653	0.5587	0.5718	0.5482
10.8	0.5644		0.5647		0.5626		0.5651		0.5718	
11.0	0.5673		0.5674		0.5662		0.5683		0.5742	
11.2	0.5680		0.5683		0.5676		0.5696		0.5751	
11.4	0.5683	0.5665	0.5685	0.5621	0.5676	0.5500	0.5696	0.5613	0.5752	0.5498
11.6	0.5692		0.5694		0.5688		0.5707		0.5761	
11.8	0.5698		0.5697		0.5690		0.5705		0.5760	
12.0	0.5703		0.5708		0.5697		0.5710		0.5765	
12.2	0.5723	0.5749	0.5728	0.5680	0.5731	0.5566	0.5735	0.5674	0.5860	0.5572
12.6	0.5735		0.5753		0.5758		0.5746		0.5796	

Table I (Continued)

 $M_{\infty} = 0.975$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.6100	0.6110	0.5957	0.6135	0.5889	0.5996	0.6286	0.6113	0.6509	0.6025
0.8	0.6111	0.6124	0.6309	0.6156	0.6513	0.6022	0.5966	0.6143	0.5907	0.6071
1.4		0.6089		0.6025		0.5872		0.6031		0.5898
1.7	0.5992		0.5840		0.5709		0.6172		0.6388	
2.0	0.5923	0.5943	0.5769	0.5881	0.5639	0.5726	0.6102	0.5890	0.6318	0.5760
2.3	0.5853		0.5699		0.5568		0.6032		0.6238	
2.5	0.5749	0.5775	0.5618	0.5714	0.5482	0.5552	0.5936	0.5721	0.6119	0.5584
2.7	0.5610		0.5464		0.5323		0.5770		0.5943	
2.8	0.5277	0.5256	0.5109	0.5200	0.4975	0.5060	0.5425	0.5205	0.5573	0.5091
2.9	0.3259	0.3272	0.3197	0.3211	0.3139	0.3110	0.3345	0.3222	0.3458	0.3142
2.9	0.3261		0.3348		0.3460		0.3192		0.3139	
3.0	0.3476	0.3549	0.3386	0.3501	0.3333	0.3405	0.3617	0.3504	0.3808	0.3427
3.1	0.3677		0.3560		0.3478		0.3859		0.4106	
3.2	0.3855		0.3727		0.3622		0.4052		0.4314	
3.3	0.4013		0.3883		0.3785		0.4210		0.4471	
3.4	0.4163		0.4050		0.3988		0.4342		0.4582	
3.5	0.4295	0.4288	0.4218	0.4246	0.4216	0.4136	0.4445	0.4250	0.4658	0.4152
3.6	0.4416		0.4380		0.4444		0.4531		0.4721	
3.7	0.4540		0.4546		0.4641		0.4626		0.4787	
3.8	0.4630	0.4617	0.4674	0.4542	0.4613	0.4347	0.4680	0.4554	0.4813	0.4390
3.9	0.4716		0.4784		0.4897		0.4732		0.4842	
4.0	0.4791	0.4766	0.4873	0.4680	0.4977	0.4470	0.4786	0.4693	0.4868	0.4527
4.1	0.4835	0.4854	0.4930	0.4782	0.5040	0.4561	0.4812	0.4786	0.4880	0.4609
4.1	0.4804		0.4788		0.4840		0.4913		0.5074	
4.2	0.4889		0.5006		0.5123		0.4839		0.4884	
4.3	0.4953	0.4936	0.5100	0.4889	0.5226	0.4684	0.4897	0.4896	0.4917	0.4733
4.4	0.5022		0.5211		0.5329		0.4941		0.4943	
4.5	0.5150	0.5149	0.5345	0.5198	0.5418	0.4899	0.5002	0.5179	0.5008	0.4951
4.6	0.5330		0.5427		0.5473		0.5119		0.5324	
4.7	0.5443	0.5417	0.5495	0.5427	0.5529	0.5429	0.5380	0.5397	0.5496	0.5261
4.8	0.5479		0.5512		0.5552		0.5475		0.5626	
4.9	0.5505	0.5512	0.5539	0.5493	0.5572	0.5341	0.5519	0.5482	0.5648	0.5364
5.0	0.5536		0.5562		0.5594		0.5554		0.5664	
5.1	0.5539	0.5549	0.5564	0.5516	0.5598	0.5359	0.5554	0.5511	0.5660	0.5391
5.2	0.5548		0.5570		0.5603		0.5563		0.5658	
5.3	0.5553	0.5562	0.5572	0.5511	0.5603	0.5361	0.5567	0.5489	0.5653	0.5373
5.4	0.5568		0.5584		0.5618		0.5583		0.5664	
5.5		0.5560		0.5514		0.5360		0.5519		0.5405
5.6	0.5555		0.5574		0.5603		0.5570		0.5640	
5.7	0.5562	0.5570	0.5574	0.5514	0.5603	0.5366	0.5577	0.5522	0.5644	0.5405
5.8	0.5555		0.5569		0.5597		0.5574		0.5640	
5.9	0.5550	0.5555	0.5562	0.5500	0.5579	0.5358	0.5567	0.5497	0.5618	0.5390

6.0	0.5548		0.5564		0.5589		0.5562		0.5639	
6.1	0.5543	0.5541	0.5560	0.5490	0.5583	0.5352	0.5558	0.5492	0.5635	0.5380
6.2	0.5538		0.5551		0.5574		0.5551		0.5623	
6.3	0.5529		0.5544		0.5574		0.5542		0.5625	
6.4	0.5523		0.5542		0.5565		0.5539		0.5618	
6.5	0.5513	0.5520	0.5528	0.5460	0.5547	0.5321	0.5528	0.5470	0.5599	0.5360
6.6	0.5521		0.5535		0.5563		0.5535		0.5618	
6.7		0.5528		0.5465		0.5326		0.5465		0.5368
6.8	0.5507		0.5523		0.5547		0.5524		0.5605	
6.9	0.5498	0.5501	0.5514	0.5441	0.5536	0.5308	0.5517	0.5451	0.5593	0.5342
7.0	0.5469		0.5512		0.5539		0.5519		0.5596	
7.2	0.5491		0.5507		0.5540		0.5519		0.5600	
7.3	0.5477		0.5494		0.5518		0.5501		0.5580	
7.4	0.5479		0.5491		0.5508		0.5498		0.5571	
7.5	0.5476	0.5474	0.5493	0.5417	0.5504	0.5285	0.5492	0.5428	0.5571	0.5327
7.6										
7.7	0.5484	0.5485	0.5496	0.5436	0.5515	0.5304	0.5503	0.5441	0.5586	0.5340
7.8	0.5471		0.5485		0.5500		0.5494		0.5573	
7.9	0.5475		0.5485		0.5499		0.5492		0.5572	
8.0	0.5466		0.5482		0.5486		0.5483		0.5561	
8.1										
8.2	0.5466		0.5478		0.5488		0.5485		0.5568	
8.3	0.5380		0.5469		0.5479		0.5478		0.5554	
8.4	0.5461		0.5472		0.5473		0.5476		0.5556	
8.5	0.5459	0.5458	0.5471	0.5406	0.5472	0.5282	0.5480	0.5406	0.5555	0.5311
8.6	0.5459		0.5471		0.5472		0.5478		0.5564	
8.7	0.5463	0.5464	0.5475	0.5439	0.5474	0.5300	0.5485	0.5434	0.5566	0.5334
8.9	0.5466	0.5450	0.5474	0.5409	0.5470	0.5287	0.5485	0.5414	0.5570	0.5319
9.0	0.5469		0.5481		0.5479		0.5492		0.5575	
9.1	0.5465	0.5463	0.5473	0.5416	0.5465	0.5288	0.5483	0.5421	0.5566	0.5327
9.2	0.5470		0.5482		0.5476		0.5491		0.5573	
9.3	0.5473	0.5459	0.5477	0.5418	0.5471	0.5292	0.5488	0.5415	0.5570	0.5323
9.4	0.5466		0.5478		0.5466		0.5487		0.5570	
9.5	0.5468	0.5474	0.5476	0.5425	0.5468	0.5308	0.5488	0.5435	0.5572	0.5342
9.6	0.5466		0.5474		0.5459		0.5487		0.5570	
9.8	0.5474	0.5450	0.5486	0.5425	0.5473	0.5299	0.5494	0.5432	0.5576	0.5342
10.0	0.5477		0.5501		0.5573		0.5474		0.5491	
10.0	0.5476		0.5491		0.5472		0.5501		0.5582	
10.2	0.5480		0.5492		0.5481		0.5508		0.5589	
10.4	0.5480		0.5490		0.5473		0.5503		0.5586	
10.6	0.5493	0.5475	0.5503	0.5437	0.5490	0.5322	0.5515	0.5439	0.5598	0.5356
10.8	0.5486		0.5496		0.5482		0.5517		0.5597	
11.0	0.5511		0.5523		0.5520		0.5537		0.5622	
11.2	0.5525		0.5539		0.5536		0.5551		0.5634	
11.4	0.5527	0.5504	0.5544	0.5471	0.5538	0.5362	0.5552	0.5465	0.5635	0.5375
11.6	0.5538		0.5555		0.5549		0.5564		0.5644	
11.8	0.5545		0.5559		0.5558		0.5562		0.5647	
12.0	0.5557		0.5572		0.5566		0.5579		0.5657	
12.2	0.5581	0.5580	0.5598	0.5546	0.5604	0.5438	0.5605	0.5543	0.5686	0.5473
12.6	0.5607		0.5626		0.5645		0.5624		0.5698	

Table I (Continued)
 $M_\infty = 1.0$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.6038	0.6067	0.5892	0.6070	0.5823	0.5928	0.6227	0.6079	0.6444	0.5927
0.8	0.6054	0.6083	0.6243	0.6093	0.6517	0.5951	0.5901	0.6108	0.5835	0.5982
1.4		0.6059		0.5963		0.5800		0.5981		0.5809
1.7	0.5941		0.5781		0.5651		0.6119		0.6334	
2.0	0.5874	0.5919	0.5713	0.5828	0.5583	0.5667	0.6054	0.5854	0.6265	0.5679
2.3	0.5813		0.5650		0.5518		0.5993		0.6197	
2.5	0.5728	0.5767	0.5555	0.5676	0.5420	0.5506	0.5912	0.5699	0.6109	0.5516
2.7	0.5591		0.5425		0.5288		0.5749		0.5928	
2.8	0.5262	0.5271	0.5087	0.5179	0.4949	0.5027	0.5410	0.5207	0.5559	0.5042
2.9	0.3249	0.3285	0.3187	0.3204	0.3125	0.3090	0.3331	0.3223	0.3443	0.3090
2.9	0.3252		0.3334		0.3447		0.3182		0.3125	
3.0	0.3463	0.3551	0.3369	0.3481	0.3316	0.3376	0.3599	0.3497	0.3790	0.3371
3.1	0.3656		0.3539		0.3459		0.3832		0.4071	
3.2	0.3828		0.3705		0.3597		0.4022		0.4274	
3.3	0.3980		0.3847		0.3756		0.4171		0.4420	
3.4	0.4120		0.4003		0.3939		0.4294		0.4523	
3.5	0.4246	0.4264	0.4161	0.4186	0.4151	0.4071	0.4392	0.4210	0.4596	0.4065
3.6	0.4357		0.4314		0.4362		0.4473		0.4648	
3.7	0.4473		0.4464		0.4546		0.4564		0.4717	
3.8	0.4557	0.4555	0.4579	0.4468	0.4675	0.4276	0.4609	0.4487	0.4454	0.4286
3.9	0.4635		0.4682		0.4775		0.4659		0.4759	
4.0	0.4701	0.4691	0.4760	0.4591	0.4847	0.4379	0.4705	0.4617	0.4782	0.4394
4.1	0.4739	0.4766	0.4802	0.4668	0.4887	0.4450	0.4728	0.4694	0.4789	0.4466
4.1	0.4709		0.4705		0.4767		0.4764		0.4845	
4.2	0.4779		0.4851		0.4928		0.4749		0.4790	
4.3	0.4830	0.4824	0.4897	0.4745	0.4965	0.4545	0.4795	0.4761	0.4818	0.4563
4.4	0.4868		0.4927		0.4988		0.4823		0.4832	
4.5	0.4910	0.4930	0.4960	0.4849	0.5018	0.4669	0.4869	0.4875	0.4861	0.4695
4.6	0.4932		0.4981		0.5033		0.4898		0.4885	
4.7	0.4974		0.5012		0.5063		0.4956		0.4945	0.5447
4.8	0.4978		0.5014		0.5060		0.4963		0.4954	
4.9	0.4992	0.5003	0.5028	0.4939	0.5068	0.4772	0.4984	0.4948	0.4982	0.4784
5.0	0.5016		0.5047		0.5086		0.5012		0.5027	
5.1	0.5024	0.5030	0.5049	0.4965	0.5083	0.4803	0.5023	0.4983	0.5042	0.4819
5.2	0.5039		0.5060		0.5092		0.5041		0.5067	
5.3	0.5044	0.4955	0.5065	0.4984	0.5097	0.4826	0.5050	0.4999	0.5081	0.4844
5.4	0.5063		0.5080		0.5118		0.5071		0.5109	
5.5		0.5065		0.5008		0.4852		0.5020		0.4870
5.6	0.5079		0.5090		0.5129		0.5087		0.5127	
5.7	0.5088	0.5083	0.5105	0.5029	0.5140	0.4882	0.5103	0.5038	0.5145	0.4691
5.8	0.5095		0.5108		0.5144		0.5108		0.5153	
5.9	0.5096	0.5090	0.5109	0.5038	0.5145	0.4899	0.5104	0.5039	0.5150	0.4887

6.0	0.5103		0.5124		0.5174		0.5118		0.5162	
6.1	0.5110	0.5099	0.5136	0.5054	0.5199	0.4921	0.5131	0.5058	0.5177	0.4923
6.2	0.5111		0.5141		0.5216		0.5130		0.5176	
6.3	0.5109		0.5147		0.5255		0.5135		0.5178	
6.4	0.5117		0.5168		0.5311		0.5136		0.5189	
6.5	0.5122	0.5112	0.5188	0.5095	0.5308	0.4975	0.5139	0.5080	0.5188	0.4950
6.6	0.5130		0.5222		0.5388		0.5161		0.5205	
6.7		0.5138		0.5144		0.5102		0.5109		0.4985
6.8	0.5134		0.5317		0.5418		0.5165		0.5208	
6.9	0.5138	0.5123	0.5352	0.5296	0.5424	0.5190	0.5178	0.5108	0.5212	0.5113
7.0	0.5150		0.5381		0.5437		0.5221		0.5225	
7.2	0.5179		0.5400		0.5441		0.5380		0.5280	
7.3	0.5200		0.5404		0.5441		0.5405		0.5341	
7.4	0.5264		0.5411		0.5439		0.5421		0.5419	
7.5	0.5337	0.5186	0.5414	0.5350	0.5435	0.5215	0.5426	0.5363	0.5456	0.5238
7.6										
7.7	0.5417	0.5325	0.5431	0.5374	0.5453	0.5241	0.5451	0.5444	0.5506	0.5253
7.8	0.5424		0.5422		0.5441		0.5447		0.5502	
7.9	0.5431		0.5422		0.5434		0.5445		0.5502	
8.0	0.5430		0.5417		0.5423		0.5438		0.5495	
8.1										
8.2	0.5440		0.5422		0.5425		0.5443		0.5503	
8.3	0.5427		0.5400		0.5409		0.5430		0.5492	
8.4	0.5435		0.5413		0.5408		0.5436		0.5495	
8.5	0.5426	0.5435	0.5402	0.5350	0.5404	0.5214	0.5434	0.5371	0.5364	0.5229
8.6	0.5431		0.5409		0.5405		0.5432		0.5490	
8.7	0.5434	0.5432	0.5407	0.5360	0.5402	0.5234	0.5440	0.5387	0.5498	0.5254
8.9	0.5431	0.5438	0.5404	0.5341	0.5397	0.5203	0.5432	0.5369	0.5493	0.5224
9.0	0.5430		0.5403		0.5397		0.5436		0.5497	
9.1	0.5422	0.5430	0.5397	0.5341	0.5382	0.5204	0.5425	0.5371	0.5481	0.5236
9.2	0.5424		0.5397		0.5386		0.5428		0.5491	
9.3	0.5414	0.5418	0.5390	0.5331	0.5375	0.5197	0.5421	0.5361	0.5488	0.5220
9.4	0.5413		0.5386		0.5372		0.5420		0.5479	
9.5	0.5408	0.5411	0.5383	0.5333	0.5370	0.5208	0.5414	0.5363	0.5477	0.5229
9.6	0.5401		0.5377		0.5359		0.5411		0.5475	
9.8	0.5399	0.5414	0.5377	0.5314	0.5359	0.5192	0.5407	0.5339	0.5470	0.5215
10.0	0.5392		0.5402		0.5459		0.5377		0.5359	
10.0	0.5385		0.5367		0.5354		0.5398		0.5465	
10.2	0.5388		0.5370		0.5357		0.5409		0.5462	
10.4	0.5376		0.5366		0.5350		0.5391		0.5454	
10.6	0.5372	0.5365	0.5368	0.5305	0.5358	0.5187	0.5393	0.5318	0.5456	0.5199
10.8	0.5369		0.5374		0.5352		0.5391		0.5451	
11.0	0.5383		0.5392		0.5388		0.5406		0.5468	
11.2	0.5397		0.5406		0.5407		0.5420		0.5484	
11.4	0.5399	0.5371	0.5411	0.5336	0.5407	0.5228	0.5424	0.5339	0.5484	0.5229
11.6	0.5412		0.5426		0.5422		0.5438		0.5498	
11.8	0.5419		0.5429		0.5429		0.5441		0.5498	
12.0	0.5443		0.5455		0.5449		0.5463		0.5515	
12.2	0.5473	0.5447	0.5485	0.5421	0.5490	0.5333	0.5497	0.5432	0.5549	0.5326
12.6	0.5513		0.5531		0.5540		0.5525		0.5575	

Table I (Continued)
M_∞ = 1.025

x/d	P/P _i									
	α=0	ψ=0	α=4	ψ=4	α=8	ψ=8	α=-4	ψ=-4	α=-8	ψ=-8
0.8	0.5992	0.5992	0.5857	0.6049	0.5782	0.5892	0.6186	0.6024	0.6410	0.5886
0.8	0.5998	0.6010	0.6206	0.6067	0.6425	0.5914	0.5852	0.6052	0.5787	0.5936
1.4		0.5986		0.5945		0.5782		0.5925		0.5767
1.7	0.5909		0.5755		0.5627		0.6091		0.6308	
2.0	0.5846	0.5848	0.5692	0.5826	0.5563	0.5660	0.6026	0.5799	0.6241	0.5637
2.3	0.5792		0.5633		0.5503		0.5971		0.6176	
2.5	0.5705	0.5702	0.5541	0.5682	0.5433	0.5515	0.5869	0.5649	0.6069	0.5480
2.7	0.5578		0.5414		0.5292		0.5728		0.5905	
2.8	0.5254	0.5212	0.5077	0.5205	0.4943	0.5057	0.5399	0.5166	0.5548	0.5015
2.9	0.3243	0.3229	0.3183	0.3217	0.3121	0.3109	0.3324	0.3190	0.3437	0.3069
2.9	0.3244		0.3317		0.3438		0.3178		0.3122	
3.0	0.3454	0.3491	0.3363	0.3490	0.3321	0.3386	0.3586	0.3455	0.3777	0.3340
3.1	0.3646		0.3531		0.3453		0.3819		0.4055	
3.2	0.3814		0.3685		0.3591		0.4003		0.4254	
3.3	0.3963		0.3832		0.3742		0.4151		0.4397	
3.4	0.4102		0.3988		0.3923		0.4270		0.4501	
3.5	0.4224	0.4188	0.4135		0.4131	0.4061	0.4366	0.4150	0.4570	0.4024
3.6	0.4334		0.4286		0.4328		0.4450		0.4627	
3.7	0.4449		0.4431		0.4514		0.4537		0.4690	
3.8	0.4524	0.4482	0.4546	0.4465	0.4641	0.4268		0.4424	0.4712	0.4236
3.9	0.4603		0.4642		0.4740		0.4629		0.4735	
4.0	0.4669	0.4613	0.4717	0.4585	0.4806	0.4371	0.4672	0.4547	0.4755	0.4337
4.1	0.4704	0.4688	0.4757	0.4678	0.4838	0.4549	0.4700	0.4619	0.4762	0.4409
4.1	0.4664		0.4657		0.4698		0.4737		0.4793	
4.2	0.4743		0.4800		0.4878		0.4714		0.4760	
4.3	0.4791	0.4759	0.4843	0.4731	0.4920	0.4523	0.4755	0.4699	0.4786	0.4481
4.4	0.4828		0.4871		0.4944		0.4783		0.4801	
4.5	0.4865	0.4852	0.4899	0.4829	0.4963	0.4647		0.4794	0.4827	0.4616
4.6	0.4884		0.4915		0.4970		0.4850		0.4846	
4.7	0.4923		0.4942		0.4994		0.4901		0.4899	
4.8	0.4927		0.4946		0.4989		0.4904		0.4903	
4.9	0.4938	0.4890	0.4951	0.4899	0.4989	0.4743	0.4919	0.4841	0.4927	0.4675
5.0	0.4954		0.4963		0.5001		0.4945		0.4968	
5.1	0.4955	0.4917	0.4956	0.4924	0.5001	0.4774	0.4943	0.4871	0.4971	0.4702
5.2	0.4966		0.4966		0.5002		0.4964		0.4996	
5.3	0.4965	0.4930	0.4966	0.4936	0.5002	0.4787	0.4964	0.4878	0.5004	0.4722
5.4	0.4981		0.4974		0.5018		0.4977		0.5023	
5.5		0.4936		0.4943		0.4806		0.4895		0.4738
5.6	0.4977		0.4974		0.5017		0.4981		0.5032	
5.7	0.4989	0.4954	0.4984	0.4955	0.5023	0.4822	0.4993	0.4905	0.5045	
5.8	0.4986		0.4984		0.5019		0.4995		0.5053	
5.9	0.4974	0.4945	0.4974	0.4932	0.5013	0.4827	0.4989	0.4909	0.5044	0.4744

6.0	0.4988		0.4998		0.5051		0.4981		0.5032	
6.1	0.4992	0.4956	0.5001	0.4944	0.5052	0.4831	0.4990	0.4913	0.5042	0.4764
6.2	0.4981		0.4990		0.5042		0.4984		0.5041	
6.3	0.4980		0.4991		0.5044		0.4980		0.5039	
6.4	0.4974		0.4990		0.5043		0.4983		0.5043	
6.5	0.4959	0.4950	0.4977	0.4930	0.5015	0.4814	0.4977	0.4914	0.5036	0.4767
6.6	0.4976		0.4994		0.5045		0.4990		0.5051	
6.7		0.4958		0.4930		0.4800		0.4909		0.4782
6.8					0.5031		0.4982		0.5048	
6.9	0.4957	0.4949	0.4977	0.4918	0.5024	0.4802	0.4977	0.4910	0.5042	0.4760
7.0	0.4955		0.4935		0.5024		0.4982		0.5050	
7.2	0.4961		0.4991		0.5034		0.4973		0.5044	
7.3	0.4946				0.5014		0.4974		0.5038	
7.4	0.4942		0.4958		0.4998		0.4969		0.5030	
7.5	0.4944	0.4937	0.4964	0.4895	0.4995	0.4765	0.4971	0.4896	0.5032	0.4758
7.6										
7.7	0.4949	0.4958	0.4970	0.4908	0.5003	0.4774	0.4981	0.4903	0.5048	
7.8	0.4943		0.4959		0.4988		0.4971		0.5039	
7.9	0.4941		0.4959		0.4983		0.4966		0.5039	
8.0	0.4934		0.4954		0.4971		0.4959		0.5027	
8.1										
8.2	0.4934		0.4952		0.4967		0.4961		0.5032	
8.3	0.4920		0.4938		0.4951		0.4954		0.5000	
8.4	0.4922		0.4942		0.4950		0.4951		0.5028	
8.5		0.4912	0.4937	0.4876	0.4945	0.4742	0.4946	0.4885	0.5028	0.4813
8.6	0.4922		0.4938		0.4949		0.4954		0.5024	
8.7	0.4923	0.4910	0.4940	0.4889	0.4944	0.4751	0.4959	0.4933	0.5040	0.4840
8.9	0.4919	0.4920	0.4936	0.4865	0.4940	0.4736	0.4968	0.4960	0.5050	0.4842
9.0	0.4922		0.4941		0.4942		0.4979		0.5069	
9.1	0.4914	0.4985	0.4931	0.4867	0.4919	0.4729	0.4987	0.4992	0.5071	0.4865
9.2	0.4918		0.4942		0.4932		0.5019		0.5091	
9.3	0.4919	0.5034	0.4942	0.4865	0.4929	0.4727	0.5050	0.5017	0.5104	0.4880
9.4	0.4911		0.4943		0.4921		0.5081		0.5122	
9.5	0.4911	0.5070	0.4959	0.4869	0.4915	0.4727	0.5103	0.5042	0.5138	0.4922
9.6	0.4909		0.4995		0.4926		0.5115		0.5154	
9.8	0.4920	0.5077	0.5024	0.4868	0.4925	0.4720	0.5125	0.5061	0.5186	0.4983
10.0	0.4961		0.5043		0.5028		0.5203		0.5303	
10.0	0.4942		0.5077		0.4956		0.5132		0.5190	
10.2	0.5000		0.5120		0.4993		0.5209		0.5307	
10.4	0.5103		0.5197		0.5032		0.5396		0.5468	
10.6	0.5171	0.5392	0.5305	0.5128	0.5066	0.4771	0.5438	0.5366	0.5498	0.5254
10.8	0.5298		0.5393		0.5142		0.5454		0.5508	
11.0	0.5410		0.5444		0.5309		0.5460		0.5516	
11.2	0.5461		0.5477		0.5437		0.5459		0.5518	
11.4	0.5480	0.5392	0.5480	0.5438	0.5488	0.5299	0.5448	0.5341	0.5506	0.5223
11.6	0.5485		0.5484		0.5513		0.5440		0.5496	
11.8	0.5482		0.5480		0.5520		0.5419		0.5478	
12.0	0.5390		0.5513		0.5553		0.5409		0.5468	
12.2	0.5405	0.5399	0.5532	0.5469	0.5584	0.5435	0.5424	0.5360	0.5487	0.5262
12.6	0.5411		0.5543		0.5610		0.5432		0.5497	

Table I (Continued)

 $M_\infty = 1.05$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.5815	0.5831	0.5681	0.5879	0.5614	0.5730	0.6021	0.5872	0.6250	0.5721
0.8	0.5828	0.5842	0.6034	0.5891	0.6263	0.5746	0.5690	0.5906	0.5611	0.5776
1.4		0.5861		0.5807		0.5658		0.5807		0.5654
1.7	0.5793		0.5638		0.5511		0.5984		0.6200	
2.0	0.5747	0.5766	0.5590	0.5711	0.5461	0.5552	0.5936	0.5722	0.6149	0.5567
2.3	0.5709		0.5548		0.5417		0.5893		0.6100	
2.5	0.5653	0.5654	0.5469	0.5595	0.5338	0.5423	0.5836	0.5601	0.6008	0.5437
2.7	0.5524		0.5363		0.5226		0.5698		0.5859	
2.8	0.5218	0.5206	0.5033	0.5147	0.4899	0.4996	0.5377	0.5166	0.5519	0.5015
2.9	0.3228	0.3230	0.3173	0.3179	0.3107	0.3066	0.3310	0.3191	0.3412	0.3076
2.9	0.3226		0.3317		0.3418		0.3173		0.3106	
3.0	0.3430	0.3478	0.3344	0.3436	0.3298	0.3328	0.3562	0.3441	0.3735	0.3330
3.1	0.3609		0.3503		0.3427		0.3776		0.3997	
3.2	0.3767		0.3650		0.3554		0.3950		0.4185	
3.3	0.3907		0.3785		0.3696		0.4089		0.4319	
3.4	0.4034		0.3926		0.3863		0.4202		0.4414	
3.5	0.4144	0.4134	0.4068	0.4095	0.4045	0.3972	0.4290	0.4096	0.4480	0.3971
3.6	0.4248		0.4206		0.4229		0.4364		0.4536	
3.7	0.4355		0.4338		0.4393		0.4450		0.4600	
3.8	0.4425	0.4409		0.4344	0.4515	0.4155	0.4493	0.4355	0.4620	0.4173
3.9	0.4493		0.4532		0.4609		0.4534		0.4640	
4.0	0.4555	0.4524	0.4603	0.4446	0.4678	0.4255	0.4575	0.4473	0.4658	0.4268
4.1	0.4573	0.4590	0.4642	0.4440	0.4713	0.4424	0.4596	0.4534	0.4668	0.4332
4.1	0.4549		0.4589		0.4661		0.4591		0.4652	
4.2	0.4620		0.4683		0.4749		0.4609		0.4664	
4.3	0.4667	0.4645	0.4724	0.4579	0.4789	0.4373	0.4646	0.4600	0.4684	0.4388
4.4	0.4697		0.4755		0.4813		0.4673		0.4698	
4.5	0.4730	0.4738	0.4779	0.4629	0.4832	0.4500	0.4707	0.4692	0.4724	0.4515
4.6	0.4752		0.4796		0.4845		0.4731		0.4736	
4.7	0.4787		0.4821		0.4871		0.4779		0.4779	
4.8	0.4788		0.4821		0.4864		0.4780		0.4786	
4.9	0.4796	0.4799	0.4827	0.4729	0.4867	0.4564	0.4790	0.4749	0.4799	0.4584
5.0	0.4816		0.4842		0.4883		0.4820		0.4840	
5.1	0.4815	0.4823	0.4839	0.4748	0.4877	0.4584	0.4826	0.4779	0.4843	0.4621
5.2	0.4827		0.4850		0.4889		0.4839		0.4867	
5.3	0.4825	0.4832	0.4858	0.4764	0.4888	0.4613	0.4842	0.4781	0.4876	0.4634
5.4	0.4842		0.4870		0.4905		0.4863		0.4899	
5.5		0.4831		0.4783		0.4627		0.4793		0.4656
5.6	0.4849		0.4872		0.4909		0.4866		0.4909	
5.7	0.4859	0.4853	0.4881	0.4806	0.4917	0.4653	0.4872	0.4805	0.4924	0.4661
5.8	0.4863		0.4888		0.4917		0.4873		0.4927	
5.9	0.4859	0.4848	0.4876	0.4814	0.4906	0.4656	0.4871	0.4788	0.4918	0.4650

6.0	0.4867		0.4905		0.4925		0.4889		0.4991	
6.1	0.4877	0.4861	0.4918	0.4830	0.4932	0.4665	0.4906	0.4813	0.5000	0.4676
6.2	0.4874		0.4920		0.4931		0.4902		0.4994	
6.3	0.4879		0.4927		0.4937		0.4903		0.4992	
6.4	0.4891		0.4929		0.4937		0.4906		0.4990	
6.5	0.4889	0.4910	0.4917	0.4863	0.4926	0.4686	0.4900	0.4861	0.4973	0.4699
6.6	0.4926		0.4928		0.4942		0.4906		0.4988	
6.7		0.4926		0.4876		0.4729		0.4885		0.4763
6.8	0.4934		0.4927		0.4945		0.4917		0.4983	
6.9	0.4940	0.4937	0.4927	0.4885	0.4945	0.4714	0.4927	0.4900	0.4979	0.4751
7.0	0.4945		0.4933		0.4952		0.4941		0.4986	
7.2	0.4962		0.4951		0.5014		0.4990		0.5015	
7.3	0.4951		0.4942		0.5010		0.4984		0.5004	
7.4	0.4952		0.4945		0.5003		0.4985		0.5008	
7.5	0.4957	0.4957	0.4955	0.4875	0.5003	0.4764	0.4997	0.4925	0.5026	0.4793
7.6										
7.7	0.4955	0.4973	0.4977	0.4896	0.5017	0.4799	0.5013	0.4919	0.5067	0.4820
7.8	0.4944		0.4988		0.5005		0.5007		0.5069	
7.9	0.4938		0.5013		0.5005		0.5004		0.5079	
8.0	0.4926		0.5010		0.4987		0.4984		0.5074	
8.1										
8.2	0.4929		0.5000		0.4977		0.4974		0.5083	
8.3	0.4931		0.4991		0.4911		0.4960		0.5069	
8.4	0.4936		0.4983		0.4951		0.4957		0.5062	
8.5	0.4946	0.4930	0.4978	0.4947	0.4948	0.4740	0.4954	0.4890	0.5063	0.4787
8.6	0.4977		0.4969		0.4943		0.4958		0.5063	
8.7	0.5002	0.4971	0.4961	0.4930	0.4933	0.4764	0.4966	0.4944	0.5072	0.4808
8.9	0.5014	0.5013	0.4938	0.4904	0.4911	0.4761	0.4984	0.4967	0.5056	0.4787
9.0	0.5011		0.4937		0.4913		0.5003		0.5056	
9.1	0.4994	0.5023	0.4918	0.4886	0.4888	0.4750	0.5011	0.4974	0.5031	0.4806
9.2	0.4989		0.4915		0.4891		0.5033		0.5035	
9.3	0.4975	0.4984	0.4909	0.4866	0.4875	0.4723	0.5052	0.4944	0.5025	0.4779
9.4	0.4958		0.4897		0.4860		0.5059		0.5015	
9.5	0.4947	0.4945	0.4890	0.4850	0.4851	0.4711	0.5056	0.4908	0.5001	0.4776
9.6	0.4937		0.4879		0.4852		0.5039		0.4985	
9.8	0.4907	0.4891	0.4867	0.4814	0.4838	0.4695	0.4997	0.4854	0.4966	0.4740
10.0	0.4879		0.4889		0.4985		0.4898		0.4822	
10.0	0.4885		0.4849		0.4835		0.4960		0.4945	
10.2	0.4849		0.4840		0.4830		0.4923		0.4919	
10.4	0.4825		0.4826		0.4812		0.4885		0.4896	
10.6	0.4812	0.4807	0.4820	0.4742	0.4810	0.4634	0.4858	0.4772	0.4880	0.4658
10.8	0.4794		0.4811		0.4788		0.4827		0.4867	
11.0	0.4804		0.4828		0.4816		0.4835		0.4893	
11.2	0.4814		0.4827		0.4819		0.4831		0.4903	
11.4	0.4813	0.4772	0.4816	0.4738	0.4811	0.4618	0.4824	0.4729	0.4897	0.4629
11.6	0.4813		0.4812		0.4813		0.4832		0.4906	
11.8	0.4788		0.4800		0.4800		0.4826		0.4911	
12.0	0.4771		0.4796		0.4797		0.4812		0.4888	
12.2	0.4776	0.4784	0.4809	0.4766	0.4795	0.4633	0.4821	0.4755	0.4911	0.4638
12.6	0.4782		0.4851		0.4785		0.4815		0.4883	

Table I (Continued)

 $M_{\infty}=1.1$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.0	0.5324	0.5335	0.5211	0.5380	0.5069	0.5239	0.5516	0.5445	0.5753	0.5258
0.8	0.5337	0.5326	0.5587	0.5392	0.5769	0.5281	0.5163	0.5500	0.5113	0.5329
1.4		0.5464		0.5386		0.5204		0.5365		0.5217
1.7	0.5426		0.5232		0.5118		0.5595		0.5838	
2.0	0.5352	0.5419	0.5166	0.5387	0.5088	0.5199	0.5546	0.5328	0.5808	0.5201
2.3	0.5325		0.5171		0.5072		0.5545		0.5807	
2.5	0.5302	0.5336	0.5199	0.5298	0.5029	0.5167	0.5535	0.5357	0.5784	0.5158
2.7	0.5322		0.5187		0.5005		0.5503		0.5704	
2.8	0.5091	0.5091	0.4905	0.5037	0.4728	0.4880	0.5250	0.5055	0.5426	0.4879
2.9	0.3170	0.3179	0.3129	0.3127	0.3053	0.3004	0.3235	0.3122	0.3348	0.2996
2.9	0.3175		0.3260		0.3345		0.3104		0.3056	
3.0	0.3351	0.3396	0.3289	0.3354	0.3238	0.3219	0.3451	0.3346	0.3618	0.3217
3.1	0.3507		0.3429		0.3358		0.3630		0.3839	
3.2	0.3642		0.3556		0.3472		0.3771		0.3998	
3.3	0.3764		0.3677		0.3597		0.3893		0.4111	
3.4	0.3870		0.3812		0.3740		0.3980		0.4194	
3.5	0.3964	0.3952	0.3917	0.3896	0.3870	0.3711	0.4073	0.3911	0.4247	0.3783
3.6	0.4052		0.4031		0.4012		0.4143		0.4295	
3.7	0.4145		0.4150		0.4149		0.4226		0.4354	
3.8	0.4208	0.4197	0.4238	0.4113	0.4256	0.3885	0.4259	0.4146	0.4374	0.3962
3.9	0.4269		0.4323		0.4337		0.4303		0.4393	
4.0	0.4342	0.4300	0.4399	0.4263	0.4397	0.4034	0.4347	0.4213	0.4406	0.4031
4.1	0.4394	0.4347	0.4450	0.4284	0.4430	0.4025	0.4380	0.4307	0.4415	0.4081
4.1	0.4335		0.4356		0.4392		0.4296		0.4453	
4.2	0.4436		0.4490		0.4466		0.4401		0.4413	
4.3	0.4476	0.4400	0.4526	0.4334	0.4515	0.4122	0.4432	0.4354	0.4447	0.4145
4.4	0.4503		0.4545		0.4550		0.4462		0.4476	
4.5	0.4528	0.4509	0.4568	0.4419	0.4584	0.4203	0.4496	0.4431	0.4515	0.4237
4.6	0.4537		0.4576		0.4608		0.4521		0.4535	
4.7	0.4563		0.4603		0.4645		0.4541		0.4573	
4.8	0.4551		0.4594		0.4636		0.4566		0.4568	
4.9	0.4554	0.4565	0.4596	0.4475	0.4630	0.4254	0.4567	0.4519	0.4575	0.4351
5.0	0.4579		0.4604		0.4636		0.4586		0.4596	
5.1	0.4580	0.4605	0.4599	0.4514	0.4627	0.4268	0.4574	0.4548	0.4592	0.4388
5.2	0.4594		0.4609		0.4631		0.4582		0.4621	
5.3	0.4595	0.4603	0.4608	0.4559	0.4627	0.4293	0.4580	0.4552	0.4635	0.4399
5.4	0.4608		0.4617		0.4642		0.4605		0.4660	
5.5		0.4613		0.4579		0.4330		0.4570		0.4423
5.6	0.4596		0.4620		0.4635		0.4621		0.4662	
5.7	0.4604	0.4627	0.4628	0.4583	0.4638	0.4375	0.4633	0.4574	0.4674	0.4414
5.8	0.4604		0.4630		0.4640		0.4635		0.4680	
5.9	0.4596	0.4625	0.4625	0.4580	0.4634	0.4386	0.4625	0.4560	0.4678	0.4420

6.0	0.4612		0.4633		0.4659		0.4647		0.4711	
6.1	0.4630	0.4621	0.4642	0.4571	0.4659	0.4421	0.4660	0.4568	0.4728	0.4436
6.2	0.4629		0.4635		0.4645		0.4653		0.4723	
6.3	0.4645		0.4640		0.4647		0.4664		0.4723	
6.4	0.4658		0.4666		0.4651		0.4669		0.4717	
6.5	0.4650	0.4626	0.4667	0.4578	0.4663	0.4424	0.4644	0.4609	0.4711	0.4448
6.6	0.4676		0.4677		0.4665		0.4691		0.4737	
6.7		0.4642		0.4607		0.4454		0.4652		0.4472
6.8	0.4673		0.4681		0.4671		0.4686		0.4748	
6.9	0.4674	0.4680	0.4682	0.4613	0.4670	0.4442	0.4689	0.4642	0.4751	0.4470
7.0	0.4677		0.4681		0.4680		0.4697		0.4766	
7.2	0.4680		0.4696		0.4703		0.4704		0.4771	
7.3	0.4649		0.4675		0.4692		0.4677		0.4757	
7.4	0.4646		0.4663		0.4680		0.4663		0.4744	
7.5	0.4654	0.4670	0.4667	0.4641	0.4685	0.4430	0.4652	0.4592	0.4743	0.4483
7.6										
7.7	0.4657	0.4659	0.4665	0.4646	0.4691	0.4454	0.4645	0.4597	0.4744	0.4479
7.8	0.4643		0.4653		0.4674		0.4637		0.4728	
7.9	0.4638		0.4655		0.4674		0.4637		0.4723	
8.0	0.4624		0.4648		0.4667		0.4628		0.4714	
8.1										
8.2	0.4621		0.4654		0.4669		0.4623		0.4719	
8.3	0.4614		0.4641		0.4650		0.4609		0.4709	
8.4	0.4625		0.4642		0.4649		0.4609		0.4710	
8.5		0.4629		0.4566	0.4648	0.4435	0.4609	0.4540	0.4714	0.4423
8.6	0.4630		0.4643		0.4653		0.4634		0.4691	
8.7	0.4629	0.4641	0.4646	0.4602	0.4650	0.4462	0.4663	0.4593	0.4709	0.4442
8.9	0.4638	0.4637	0.4646	0.4595	0.4643	0.4445	0.4707	0.4632	0.4694	0.4426
9.0	0.4634		0.4658		0.4648		0.4723		0.4701	
9.1	0.4646	0.4658	0.4655	0.4612	0.4641	0.4431	0.4732	0.4679	0.4689	0.4471
9.2	0.4666		0.4667		0.4649		0.4748		0.4706	
9.3	0.4680	0.4684	0.4675	0.4618	0.4649	0.4427	0.4750	0.4683	0.4720	0.4542
9.4	0.4694		0.4678		0.4647		0.4739		0.4735	
9.5	0.4715	0.4702	0.4689	0.4654	0.4640	0.4442	0.4735	0.4712	0.4762	0.4570
9.6	0.4728		0.4709		0.4651		0.4732		0.4774	
9.8	0.4746	0.4701	0.4725	0.4661	0.4645	0.4476	0.4722	0.4669	0.4855	0.4569
10.0	0.4739		0.4764		0.4774		0.4664		0.4691	
10.0	0.4730		0.4723		0.4668		0.4720		0.4836	
10.2	0.4713		0.4723		0.4683		0.4703		0.4849	
10.4	0.4702		0.4721		0.4700		0.4687		0.4823	
10.6	0.4702	0.4703	0.4725	0.4666	0.4688	0.4499	0.4674	0.4599	0.4799	0.4498
10.8	0.4684		0.4717		0.4670		0.4663		0.4773	
11.0	0.4692		0.4730		0.4697		0.4681		0.4764	
11.2	0.4671		0.4727		0.4712		0.4698		0.4764	
11.4	0.4666	0.4672	0.4706	0.4649	0.4698	0.4510	0.4708	0.4594	0.4769	0.4476
11.6	0.4660		0.4694		0.4700		0.4712		0.4764	
11.8	0.4654		0.4674		0.4690		0.4692		0.4749	
12.0	0.4646		0.4662		0.4663		0.4685		0.4753	
12.2	0.4654	0.4676	0.4665	0.4637	0.4670	0.4508	0.4694	0.4631	0.4776	0.4531
12.6	0.4676		0.4669		0.4667		0.4712		0.4762	

Table I (Continued)

 $M_{\infty} = 1.15$

x/d	P/P_t									
	$\alpha = 0$	$\psi = 0$	$\alpha = 4$	$\psi = 4$	$\alpha = 8$	$\psi = 8$	$\alpha = -4$	$\psi = -4$	$\alpha = -8$	$\psi = -8$
0.8	0.5048	0.5057	0.4961	0.5144	0.4849	0.4976	0.5290	0.5148	0.5548	0.4982
0.8	0.5048	0.5078	0.5297	0.5151	0.5536	0.5003	0.4983	0.5179	0.4885	0.5055
1.4		0.5181		0.5088		0.4940		0.5133		0.4959
1.7	0.5093		0.4934		0.4799		0.5329		0.5576	
2.0	0.5061	0.5098	0.4891	0.5044	0.4796	0.4890	0.5285	0.5044	0.5545	0.4913
2.3	0.5055		0.4878		0.4784		0.5283		0.5533	
2.5	0.5048	0.5075	0.4900	0.5031	0.4744	0.4889	0.5295	0.5050	0.5529	0.4882
2.7	0.5067		0.4914		0.4745		0.5285		0.5517	
2.8	0.4905	0.4903	0.4698	0.4877	0.4527	0.4710	0.5122	0.4871	0.5311	0.4714
2.9	0.3071	0.3075	0.3006	0.3038	0.2913	0.2901	0.3170	0.3033	0.3269	0.2905
2.9	0.3076		0.3173		0.3280		0.3008		0.2932	
3.0	0.3225	0.3261	0.3152	0.3231	0.3111	0.3086	0.3352	0.3219	0.3499	0.3083
3.1	0.3366		0.3277		0.3238		0.3502		0.3682	
3.2	0.3479		0.3388		0.3360		0.3621		0.3817	
3.3	0.3578		0.3491		0.3472		0.3720		0.3913	
3.4	0.3663		0.3587		0.3582		0.3802		0.3980	
3.5	0.3738	0.3749	0.3677	0.3677	0.3691	0.3517	0.3866	0.3676	0.4024	0.3521
3.6	0.3814		0.3766		0.3796		0.3924		0.4063	
3.7	0.3889		0.3871		0.3907		0.3996		0.4117	
3.8	0.3936	0.3927	0.3962	0.3856	0.3993	0.3691	0.4022	0.3878	0.4128	0.3690
3.9	0.3977		0.4033		0.4065		0.4051		0.4152	
4.0	0.4016	0.4005	0.4079	0.3934	0.4125	0.3749	0.4076	0.3959	0.4165	0.3764
4.1	0.4042	0.4037	0.4096	0.3968	0.4153	0.3749	0.4097	0.4018	0.4173	0.3793
4.1	0.4026		0.4089		0.4191		0.4056		0.4088	
4.2	0.4055		0.4109		0.4179		0.4098		0.4161	
4.3	0.4099	0.4073	0.4147	0.4015	0.4213	0.3781	0.4118	0.4041	0.4181	0.3831
4.4	0.4138		0.4169		0.4235		0.4132		0.4187	
4.5	0.4169	0.4145	0.4197	0.4084	0.4251	0.3879	0.4155	0.4115	0.4212	0.3918
4.6	0.4178		0.4215		0.4259		0.4169		0.4219	
4.7	0.4205	0.4172	0.4247	0.4102	0.4288	0.3927	0.4223	0.4107	0.4257	0.3932
4.8	0.4202		0.4258		0.4284		0.4223		0.4244	
4.9	0.4219	0.4220	0.4272	0.4175	0.4293	0.4030	0.4251	0.4214	0.4245	0.3990
5.0	0.4248		0.4291		0.4323		0.4287		0.4265	
5.1	0.4254	0.4278	0.4296	0.4220	0.4331	0.4045	0.4281	0.4283	0.4266	0.4045
5.2	0.4273		0.4304		0.4339		0.4295		0.4278	
5.3	0.4291	0.4311	0.4306	0.4248	0.4346	0.4061	0.4307	0.4290	0.4279	0.4061
5.4	0.4309		0.4315		0.4363		0.4348		0.4303	
5.5		0.4326		0.4276		0.4139		0.4332		0.4123
5.6	0.4306		0.4328		0.4386		0.4362		0.4362	
5.7	0.4314	0.4359	0.4339	0.4328	0.4410	0.4205	0.4374	0.4378	0.4411	0.4127
5.8	0.4315		0.4350		0.4418		0.4378		0.4429	
5.9	0.4315	0.4379	0.4357	0.4337	0.4409	0.4206	0.4390	0.4379	0.4424	0.4160

6.0	0.4354		0.4378		0.4456		0.4356		0.4428	
6.1	0.4381	0.4376	0.4403	0.4337	0.4475	0.4200	0.4383	0.4376	0.4431	0.4224
6.2	0.4382		0.4406		0.4475		0.4396		0.4424	
6.3	0.4389		0.4407		0.4493		0.4409		0.4451	
6.4	0.4398		0.4417		0.4497		0.4427		0.4485	
6.5	0.4399	0.4371	0.4412	0.4310	0.4472	0.4212	0.4426	0.4331	0.4485	0.4196
6.6	0.4425		0.4445		0.4479		0.4439		0.4514	
6.7		0.4379		0.4345		0.4231		0.4355		0.4217
6.8	0.4427		0.4454		0.4466		0.4430		0.4506	
6.9	0.4444	0.4366	0.4456	0.4362	0.4455	0.4200	0.4432	0.4358	0.4496	0.4213
7.0	0.4470		0.4456		0.4454		0.4445		0.4501	
7.2	0.4473		0.4451		0.4454		0.4448		0.4515	
7.3	0.4466		0.4440		0.4434		0.4445		0.4515	
7.4	0.4439		0.4428		0.4435		0.4454		0.4508	
7.5	0.4427	0.4423	0.4424	0.4333	0.4433	0.4111	0.4482	0.4332	0.4519	0.4185
7.6										
7.7	0.4402	0.4461	0.4394	0.4327	0.4411	0.4123	0.4527	0.4367	0.4556	0.4174
7.8	0.4367		0.4368		0.4396		0.4509		0.4551	
7.9	0.4351		0.4359		0.4395		0.4496		0.4546	
8.0	0.4326		0.4345		0.4379		0.4468		0.4530	
8.1										
8.2	0.4302		0.4346		0.4374		0.4441		0.4522	
8.3	0.4288		0.4340		0.4369		0.4415		0.4488	
8.4	0.4292		0.4348		0.4369		0.4392		0.4465	
8.5	0.4299	0.4302	0.4345	0.4255	0.4370	0.4131	0.4364	0.4243	0.4444	0.4136
8.6	0.4304		0.4340		0.4367		0.4350		0.4433	
8.7	0.4309	0.4301	0.4338	0.4262	0.4376	0.4139	0.4330	0.4283	0.4418	0.4155
8.9	0.4306	0.4300	0.4332	0.4252	0.4377	0.4131	0.4317	0.4275	0.4386	0.4136
9.0	0.4315		0.4340		0.4376		0.4322		0.4382	
9.1	0.4311	0.4314	0.4342	0.4269	0.4354	0.4152	0.4316	0.4333	0.4369	0.4146
9.2	0.4328		0.4348		0.4348		0.4330		0.4374	
9.3	0.4340	0.4325	0.4352	0.4275	0.4355	0.4189	0.4344	0.4330	0.4381	0.4131
9.4	0.4342		0.4341		0.4357		0.4355		0.4379	
9.5	0.4364	0.4326	0.4339	0.4292	0.4361	0.4200	0.4364	0.4329	0.4392	0.4162
9.6	0.4366		0.4334		0.4348		0.4374		0.4406	
9.8	0.4360	0.4318	0.4347	0.4288	0.4362	0.4161	0.4381	0.4323	0.4455	0.4172
10.0			0.4388		0.4491		0.4366		0.4343	
10.0	0.4340		0.4353		0.4334		0.4399		0.4462	
10.2	0.4350		0.4368		0.4354		0.4402		0.4469	
10.4	0.4365		0.4364		0.4364		0.4401		0.4478	
10.6	0.4374	0.4357	0.4379	0.4318	0.4407	0.4201	0.4410	0.4339	0.4495	0.4188
10.8	0.4385		0.4392		0.4390		0.4404		0.4467	
11.0	0.4410		0.4427		0.4398		0.4432		0.4467	
11.2	0.4420		0.4433		0.4391		0.4443		0.4476	
11.4	0.4424	0.4402	0.4419	0.4359	0.4391	0.4240	0.4468	0.4350	0.4513	0.4233
11.6	0.4430		0.4416		0.4392		0.4473		0.4532	
11.8	0.4423		0.4413		0.4391		0.4475		0.4539	
12.0	0.4415		0.4402		0.4396		0.4472		0.4517	
12.2	0.4403	0.4411	0.4415	0.4356	0.4413	0.4247	0.4475	0.4403	0.4542	0.4302
12.6	0.4409		0.4420		0.4407		0.4450		0.4560	

Table I (Continued)

 $M_{\infty}=1.2$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.4756	0.4740	0.4689	0.4865	0.4516	0.4636	0.4938	0.4782	0.5239	0.4657
0.8	0.4754	0.4778	0.5028	0.4906	0.5259	0.4714	0.4614	0.4819	0.4543	0.4703
1.4		0.4905		0.4852		0.4639		0.4801		0.4641
1.7	0.4826		0.4687		0.4540		0.5018		0.5319	
2.0	0.4812	0.4871	0.4692	0.4859	0.4507	0.4626	0.5049	0.4792	0.5289	0.4652
2.3	0.4841		0.4678		0.4522		0.5045		0.5291	
2.5	0.4789	0.4827	0.4676	0.4821	0.4522	0.4613	0.5006	0.4768	0.5276	0.4600
2.7	0.4795		0.4692		0.4503		0.5004		0.5315	
2.8	0.4697	0.4707	0.4525	0.4716	0.4328	0.4521	0.4920	0.4676	0.5171	0.4534
2.9	0.2943	0.2943	0.2891	0.2956	0.2782	0.2816	0.3067	0.2935	0.3189	0.2823
2.9	0.2953		0.3077		0.3189		0.2885		0.2800	
3.0	0.3076	0.3112	0.3038	0.3121	0.2963	0.2974	0.3220	0.3108	0.3381	0.2993
3.1	0.3200		0.3161		0.3078		0.3355		0.3534	
3.2	0.3297		0.3268		0.3181		0.3459		0.3650	
3.3	0.3388		0.3361		0.3279		0.3543		0.3738	
3.4	0.3465		0.3441		0.3382		0.3610		0.3807	
3.5	0.3539	0.3515	0.3527	0.3518	0.3482	0.3323	0.3662	0.3492	0.3846	0.3370
3.6	0.3606		0.3604		0.3586		0.3708		0.3895	
3.7	0.3675		0.3681		0.3692		0.3768		0.3957	
3.8	0.3709	0.3706	0.3737	0.3677	0.3758	0.3427	0.3780	0.3636	0.3957	0.3469
3.9	0.3730		0.3799		0.3804		0.3778		0.3961	
4.0	0.3761	0.3800	0.3861	0.3801	0.3843	0.3494	0.3799	0.3722	0.3954	0.3536
4.1	0.3786	0.3848	0.3894	0.3822	0.3860	0.3512	0.3812	0.3759	0.3952	0.3554
4.1	0.3763		0.3787		0.3852		0.3820		0.3890	
4.2	0.3801		0.3918		0.3891		0.3810		0.3927	
4.3	0.3844	0.3871	0.3949	0.3845	0.3925	0.3571	0.3837	0.3809	0.3935	0.3620
4.4	0.3891		0.3971		0.3958		0.3859		0.3927	
4.5	0.3933	0.3916	0.3990	0.3919	0.3992	0.3658	0.3899	0.3872	0.3937	0.3692
4.6	0.3953		0.4007		0.4010		0.3937		0.3941	
4.7	0.3978	0.3913	0.4025	0.3922	0.4051	0.3645	0.3997	0.3861	0.4001	0.3663
4.8	0.3985		0.4032		0.4059		0.3996		0.3996	
4.9	0.3994	0.3977	0.4055	0.3973	0.4063	0.3708	0.3996	0.3912	0.4003	0.3710
5.0	0.4013		0.4084		0.4074		0.4008		0.4035	
5.1	0.3995	0.4001	0.4100	0.3985	0.4063	0.3715	0.3995	0.3935	0.4040	0.3735
5.2	0.4000		0.4098		0.4063		0.3992		0.4053	
5.3	0.3992	0.4007	0.4103	0.3880	0.4059	0.3745	0.3992	0.3937	0.4048	0.3771
5.4	0.4008		0.4115		0.4073		0.4013		0.4062	
5.5		0.4020		0.4007		0.3809		0.3949		0.3811
5.6	0.4011		0.4123		0.4090		0.4041		0.4064	
5.7	0.4024	0.4026	0.4129		0.4105	0.3819	0.4044		0.4080	0.3816
5.8	0.4036		0.4131		0.4109		0.4038		0.4085	
5.9	0.4041	0.4037	0.4113	0.4048	0.4105	0.3800	0.4036	0.3974	0.4081	0.3821

6.0	0.4070		0.4138		0.4113		0.4041		0.4086	
6.1	0.4079	0.4044	0.4149	0.4043	0.4121	0.3797	0.4050	0.4006	0.4104	0.3846
6.2	0.4069		0.4147		0.4111		0.4044		0.4117	
6.3	0.4083		0.4151		0.4114		0.4050		0.4142	
6.4	0.4096		0.4160		0.4118		0.4063		0.4157	
6.5	0.4083	0.4067	0.4156	0.4100	0.4137	0.3865	0.4077	0.3998	0.4156	0.3854
6.6	0.4126		0.4171		0.4172		0.4101		0.4178	
6.7		0.4110		0.4110		0.3903		0.4012		0.3878
6.8	0.4130		0.4166		0.4191		0.4151		0.4178	
6.9	0.4119	0.4121	0.4163	0.4090	0.4182	0.3875	0.4149	0.4061	0.4173	0.3882
7.0	0.4104		0.4163		0.4176		0.4144		0.4182	
7.2	0.4071		0.4184		0.4181		0.4144		0.4219	
7.3	0.4062		0.4164		0.4152		0.4149		0.4234	
7.4	0.4077		0.4163		0.4128		0.4134		0.4248	
7.5	0.4100	0.4130	0.4175	0.4134	0.4126	0.3912	0.4125	0.4033	0.4244	0.3932
7.6										
7.7	0.4143	0.4148	0.4195	0.4120	0.4145	0.3914	0.4134	0.4067	0.4218	0.3921
7.8	0.4142		0.4197		0.4139		0.4108		0.4198	
7.9	0.4145		0.4205		0.4150		0.4102		0.4194	
8.0	0.4135		0.4198		0.4159		0.4096		0.4178	
8.1										
8.2	0.4132		0.4196		0.4175		0.4128		0.4200	
8.3	0.4043		0.4182		0.4161		0.4151		0.4205	
8.4	0.4118		0.4181		0.4150		0.4158		0.4216	
8.5	0.4123	0.4103	0.4173	0.4131	0.4145	0.3911	0.4158	0.4062	0.4210	0.3921
8.6	0.4126		0.4171		0.4149		0.4162		0.4221	
8.7	0.4139	0.4120	0.4168	0.4148	0.4140	0.3948	0.4173	0.4087	0.4233	0.3929
8.9	0.4140	0.4143	0.4179	0.4139	0.4123	0.3908	0.4187	0.4059	0.4273	0.3926
9.0	0.4133		0.4190		0.4137		0.4187		0.4275	
9.1	0.4119	0.4161	0.4184	0.4129	0.4129	0.3900	0.4173	0.4066	0.4258	0.3961
9.2	0.4118		0.4181		0.4132		0.4173		0.4256	
9.3	0.4115	0.4125	0.4176	0.4108	0.4125	0.3902	0.4170	0.4065	0.4256	0.3947
9.4	0.4108		0.4167		0.4125		0.4163		0.4253	
9.5	0.4126	0.4100	0.4163	0.4111	0.4132	0.3937	0.4171	0.4107	0.4239	0.3958
9.6	0.4108		0.4167		0.4136		0.4149		0.4221	
9.8	0.4120	0.4059	0.4174	0.4108	0.4117	0.3925	0.4141	0.4069	0.4226	0.3952
10.0	0.4080		0.4182		0.4239		0.4107		0.4114	
10.0	0.4111		0.4182		0.4105		0.4121		0.4248	
10.2	0.4113		0.4185		0.4122		0.4115		0.4250	
10.4	0.4106		0.4188		0.4132		0.4136		0.4201	
10.6	0.4111	0.4133	0.4170	0.4127	0.4119	0.3943	0.4139	0.4047	0.4177	0.3908
10.8	0.4116		0.4150		0.4099		0.4129		0.4183	
11.0	0.4138		0.4161		0.4114		0.4176		0.4227	
11.2	0.4108		0.4171		0.4102		0.4196		0.4237	
11.4	0.4093	0.4068	0.4161	0.4060	0.4094	0.3900	0.4180	0.4029	0.4267	0.3923
11.6	0.4075		0.4159		0.4110		0.4158		0.4265	
11.8	0.4076		0.4151		0.4069		0.4111		0.4223	
12.0	0.4098		0.4142		0.4077		0.4074		0.4195	
12.2	0.4111	0.4112	0.4149	0.4119	0.4087	0.3920	0.4068	0.4050	0.4185	0.3954
12.6	0.4081		0.4158		0.4077		0.4135		0.4162	

Table I (Continued)
 $M_{\infty} = 1.3$

x/d	p/p_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.4137	0.4138	0.4042	0.4152	0.3899	0.3997	0.4331	0.4172	0.4599	0.3988
0.8	0.4126	0.4176	0.4379	0.4207	0.4623	0.4044	0.4016	0.4179	0.3899	0.4030
1.4		0.4269		0.4211		0.4078		0.4172		0.3979
1.7	0.4162		0.4033		0.3886		0.4420		0.4663	
2.0	0.4179	0.4198	0.4042	0.4158	0.3888	0.4014	0.4374	0.4166	0.4674	0.3984
2.3	0.4198		0.4062		0.3914		0.4400		0.4655	
2.5	0.4260	0.4247	0.4147	0.4205	0.3937	0.4040	0.4458	0.4211	0.4668	0.3997
2.7	0.4302		0.4086		0.3978		0.4557		0.4703	
2.8	0.4238	0.4148	0.3989	0.4105	0.3869	0.3986	0.4496	0.4163	0.4666	0.4008
2.9	0.2655	0.2597	0.2529	0.2575	0.2447	0.2571	0.2804	0.2609	0.2905	0.2498
2.9	0.2687		0.2791		0.2970		0.2561		0.2448	
3.0	0.2749	0.2748	0.2633	0.2720	0.2606	0.2625	0.2903	0.2743	0.3028	0.2625
3.1	0.2774		0.2732		0.2702		0.2990		0.3149	
3.2	0.2892		0.2817		0.2796		0.3049		0.3244	
3.3	0.2948		0.2889		0.2886		0.3102		0.3305	
3.4	0.3009		0.2957		0.2959		0.3151		0.3341	
3.5	0.3067	0.3087	0.3021	0.3050	0.3012	0.2870	0.3192	0.3043	0.3370	0.2871
3.6	0.3065		0.3032		0.3071		0.3193		0.3395	
3.7	0.3169		0.3160		0.3165		0.3284		0.3460	
3.8	0.3216	0.3195	0.3231	0.3152	0.3238	0.2968	0.3303	0.3191	0.3466	0.2964
3.9	0.3270		0.3302		0.3296		0.3327		0.3482	
4.0	0.3318	0.3295	0.3355	0.3236	0.3357	0.3014	0.3343	0.3251	0.3490	0.3020
4.1	0.3344	0.3316	0.3378	0.3260	0.3391	0.2992	0.3375	0.3261	0.3480	0.3046
4.1	0.3327		0.3403		0.3504		0.3334		0.3361	
4.2	0.3368		0.3391		0.3420		0.3386		0.3453	
4.3	0.3417	0.3344	0.3433	0.3296	0.3454	0.3029	0.3426	0.3252	0.3471	0.3049
4.4	0.3439		0.3493		0.3472		0.3454		0.3492	
4.5	0.3453	0.3421	0.3519	0.3328	0.3502	0.3111	0.3480	0.3313	0.3502	0.3072
4.6	0.3464		0.3514		0.3533		0.3483		0.3508	
4.7	0.3504	0.3408	0.3518	0.3317	0.3564	0.3114	0.3504	0.3324	0.3554	0.3080
4.8	0.3513		0.3501		0.3550		0.3490		0.3535	
4.9	0.3504	0.3461	0.3490	0.3377	0.3542	0.3151	0.3496	0.3394	0.3526	0.3171
5.0	0.3495		0.3505		0.3555		0.3536		0.3547	
5.1	0.3477	0.3492	0.3498	0.3437	0.3550	0.3173	0.3525	0.3462	0.3527	0.3233
5.2	0.3499		0.3513		0.3561		0.3510		0.3523	
5.3	0.3508	0.3542	0.3520	0.3465	0.3568	0.3208	0.3496	0.3461	0.3522	0.3244
5.4	0.3513		0.3536		0.3581		0.3513		0.3544	
5.5		0.3536		0.3507		0.3288		0.3495		0.3261
5.6	0.3504		0.3535		0.3577		0.3516		0.3537	
5.7	0.3512	0.3576	0.3545	0.3516	0.3584	0.3306	0.3509	0.3501	0.3546	0.3263
5.8	0.3517		0.3556		0.3583		0.3517		0.3571	
5.9	0.3523	0.3588	0.3566	0.3513	0.3572	0.3325	0.3534	0.3561	0.3595	0.3325

6.0	0.3539		0.3578		0.3583		0.3577		0.3584	
6.1	0.3548	0.3557	0.3589	0.3483	0.3589	0.3374	0.3584	0.3538	0.3583	0.3410
6.2	0.3535		0.3574		0.3583		0.3578		0.3565	
6.3	0.3533		0.3573		0.3595		0.3590		0.3587	
6.4	0.3546		0.3561		0.3599		0.3591		0.3610	
6.5	0.3535	0.3518	0.3543	0.3470	0.3616	0.3310	0.3571	0.3491	0.3600	0.3358
6.6	0.3555		0.3626				0.3578		0.3632	
6.7		0.3499		0.3467		0.3296		0.3474		0.3300
6.8	0.3541		0.3521		0.3578		0.3559		0.3682	
6.9	0.3523	0.3503	0.3516	0.3433	0.3565	0.3263	0.3542	0.3451	0.3696	0.3286
7.0	0.3512		0.3520		0.3558		0.3533		0.3678	
7.2	0.3512		0.3532		0.3557		0.3521		0.3603	
7.3	0.3489		0.3531		0.3544		0.3517		0.3584	
7.4	0.3483		0.3543		0.3522		0.3526		0.3575	
7.5	0.3510	0.3563	0.3555	0.3499	0.3534	0.3348	0.3544	0.3498	0.3586	0.3363
7.6										
7.7	0.3577	0.3549	0.3559	0.3526	0.3575	0.3337	0.3605	0.3522	0.3561	0.3355
7.8	0.3579		0.3552		0.3593		0.3615		0.3553	
7.9	0.3583		0.3555		0.3627		0.3617		0.3579	
8.0	0.3572		0.3552		0.3617		0.3590		0.3610	
8.1										
8.2			0.3569		0.3594		0.3575		0.3696	
8.3	0.3532		0.3582		0.3564		0.3575		0.3684	
8.4	0.3539		0.3593		0.3550		0.3594		0.3666	
8.5		0.3571	0.3574	0.3472		0.3348	0.3600	0.3527	0.3653	0.3349
8.6	0.3536		0.3566		0.3573		0.3605		0.3653	
8.7	0.3524	0.3558	0.3557	0.3490	0.3577	0.3348	0.3590	0.3539	0.3646	0.3371
8.9	0.3556	0.3519	0.3559	0.3536	0.3586	0.3347	0.3576	0.3513	0.3621	0.3371
9.0	0.3591		0.3582		0.3596		0.3581		0.3633	
9.1	0.3576	0.3553	0.3580	0.3505	0.3574	0.3330	0.3571	0.3522	0.3639	0.3386
9.2	0.3574		0.3595		0.3554		0.3567		0.3666	
9.3	0.3567	0.3555	0.3613	0.3497	0.3550	0.3318	0.3572	0.3507	0.3678	0.3376
9.4	0.3563		0.3627		0.3552		0.3587		0.3671	
9.5	0.3574	0.3576	0.3635	0.3525	0.3561	0.3392	0.3658	0.3532	0.3655	0.3396
9.6	0.3612		0.3629		0.3702		0.3669		0.3637	
9.8	0.3667	0.3578	0.3641	0.3557	0.3635	0.3437	0.3671	0.3553	0.3648	0.3390
10.0	0.3625		0.3688		0.3793		0.3632		0.3611	
10.0	0.3655		0.3618		0.3647		0.3671		0.3650	
10.2	0.3612		0.3613		0.3620		0.3700		0.3762	
10.4	0.3582		0.3602		0.3584		0.3678		0.3765	
10.6	0.3577	0.3636	0.3621	0.3596	0.3563	0.3441	0.3620	0.3619	0.3731	0.3417
10.8	0.3606		0.3623		0.3580		0.3600		0.3723	
11.0	0.3651		0.3651		0.3642		0.3640		0.3730	
11.2	0.3644		0.3688		0.3645		0.3701		0.3698	
11.4	0.3632	0.3611	0.3688	0.3549	0.3619	0.3433	0.3707	0.3559	0.3712	0.3429
11.6	0.3678		0.3672		0.3616		0.3707		0.3729	
11.8	0.3680		0.3651		0.3604		0.3667		0.3757	
12.0	0.3652		0.3629		0.3581		0.3691		0.3740	
12.2	0.3631	0.3659	0.3624	0.3607	0.3613	0.3445	0.3718	0.3598	0.3753	0.3449
12.6	0.3608		0.3654		0.3615		0.3673		0.3751	

Table I (Continued)
 $M_{\infty} = 1.4$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.3667	0.3662	0.3595	0.3709	0.3433	0.3541	0.3884	0.3708	0.4203	0.3544
0.8	0.3668	0.3706	0.3928	0.3769	0.4142	0.3584	0.3576	0.3717	0.3466	0.3633
1.4		0.3790		0.3727		0.3557		0.3718		0.3590
1.7	0.3720		0.3555		0.3386		0.3979		0.4198	
2.0	0.3747	0.3742	0.3520	0.3679	0.3399	0.3510	0.3988	0.3751	0.4258	0.3598
2.3	0.3715		0.3538		0.3448		0.3997		0.4313	
2.5	0.3697	0.3723	0.3513	0.3670	0.3420	0.3560	0.3920	0.3670	0.4295	0.3540
2.7	0.3669		0.3537		0.3418		0.3890		0.4264	
2.8	0.3649	0.3673	0.3508	0.3608	0.3367	0.3522	0.3888	0.3622	0.4236	0.3540
2.9	0.2265	0.2269	0.2209	0.2265	0.2112	0.2177	0.2426	0.2236	0.2621	0.2183
2.9	0.2293		0.2446		0.2598		0.2187		0.2130	
3.0	0.2345	0.2380	0.2295	0.2391	0.2220	0.2262	0.2507	0.2345	0.2710	0.2277
3.1	0.2417		0.2383		0.2315		0.2579		0.2794	
3.2	0.2482		0.2452		0.2396		0.2625		0.2851	
3.3	0.2538		0.2504		0.2469		0.2662		0.2889	
3.4	0.2594		0.2559		0.2537		0.2708		0.2910	
3.5	0.2655	0.2653	0.2616	0.2646	0.2590	0.2455	0.2716	0.2620	0.2920	0.2452
3.6	0.2674		0.2644		0.2608		0.2711		0.2905	
3.7	0.2774		0.2752		0.2722		0.2814		0.2957	
3.8	0.2811	0.2775	0.2791	0.2728	0.2769	0.2533	0.2852	0.2697	0.2970	0.2496
3.9	0.2854		0.2824		0.2811		0.2879		0.3010	
4.0	0.2877	0.2858	0.2861	0.2769	0.2856	0.2591	0.2884	0.2719	0.3027	0.2536
4.1	0.2890	0.2867	0.2882	0.2790	0.2893	0.2554	0.2897	0.2770	0.3043	0.2575
4.1	0.2836		0.2860		0.2908		0.2869		0.2900	
4.2	0.2896		0.2901		0.2920		0.2903		0.3022	
4.3	0.2910	0.2868	0.2926	0.2789	0.2951	0.2547	0.2939	0.2796	0.3021	0.2578
4.4	0.2915		0.2947		0.2973		0.2962		0.3009	
4.5	0.2928	0.2916	0.2959	0.2824	0.2999	0.2592	0.2986	0.2853	0.3017	0.2628
4.6	0.2939		0.2959		0.3012		0.2989		0.3018	
4.7	0.2963	0.2908	0.2980	0.2821	0.3024	0.2587	0.3008	0.2838	0.3049	0.2602
4.8	0.2950		0.2977		0.3024		0.2983		0.3030	
4.9	0.2940	0.3033	0.2980	0.2927	0.3036	0.2652	0.2975	0.2950	0.3020	0.2666
5.0	0.2958		0.3022		0.3078		0.2999		0.3046	
5.1	0.2969	0.3019	0.3040	0.2975	0.3092	0.2681	0.2995	0.3001	0.3047	0.2733
5.2	0.3005		0.3057		0.3097		0.2994		0.3074	
5.3	0.3027	0.2981	0.3049	0.2959	0.3092	0.2715	0.2983	0.2954	0.3078	0.2748
5.4	0.3045		0.3051		0.3095		0.3010		0.3083	
5.5		0.2985		0.2957		0.2739		0.2947		0.2810
5.6	0.3036		0.3046		0.3077		0.3049		0.3073	
5.7	0.3029	0.3026	0.3051	0.2934	0.3085	0.2751	0.3048	0.2945	0.3096	0.2803
5.8	0.3019		0.3067		0.3095		0.3034		0.3111	
5.9	0.3008	0.3054	0.3071	0.2958	0.3101	0.2791	0.3011	0.2948	0.3121	0.2809

6.0	0.3028		0.3081		0.3112		0.3011		0.3122	
6.1	0.3040	0.3040	0.3097	0.2970	0.3127	0.2819	0.3037	0.2972	0.3113	0.2795
6.2	0.3031		0.3084		0.3122		0.3050		0.3085	
6.3	0.3047		0.3082		0.3134		0.3082		0.3091	
6.4	0.3043		0.3080		0.3124		0.3089		0.3095	
6.5	0.3035	0.2993	0.3071	0.2980	0.3099	0.2813	0.3076	0.2972	0.3089	0.2810
6.6	0.3060		0.3080		0.3108		0.3081		0.3097	
6.7		0.3005		0.2967		0.2803		0.2972		0.2831
6.8	0.3060		0.3054		0.3108		0.3061		0.3122	
6.9	0.3055	0.3021	0.3061	0.2987	0.3105	0.2796	0.3050	0.2992	0.3150	0.2842
7.0	0.3055		0.3071		0.3105		0.3042		0.3177	
7.2	0.3086		0.3099		0.3114		0.3055		0.3191	
7.3	0.3078		0.3080		0.3112		0.3065		0.3154	
7.4	0.3075		0.3089		0.3110		0.3082		0.3136	
7.5	0.3083	0.3071	0.3107	0.3000	0.3115	0.2847	0.3112	0.3002	0.3138	0.2884
7.6										
7.7	0.3127	0.3101	0.3127	0.3058	0.3132	0.2868	0.3150	0.3056	0.3165	0.2913
7.8	0.3116		0.3128		0.3140		0.3137		0.3182	
7.9	0.3112		0.3134		0.3148		0.3125		0.3182	
8.0	0.3108		0.3124		0.3148		0.3107		0.3172	
8.1										
8.2	0.3131		0.3117		0.3151		0.3130		0.3211	
8.3	0.3127		0.3105		0.3126		0.3126		0.3197	
8.4	0.3136		0.3118		0.3123		0.3156		0.3201	
8.5	0.3131	0.3147	0.3125	0.3121	0.3118	0.2907	0.3180	0.3123	0.3203	0.3020
8.6	0.3123		0.3139		0.3122		0.3180		0.3219	
8.7	0.3125	0.3135	0.3140	0.3071	0.3125	0.2995	0.3174	0.3091	0.3217	0.3019
8.9	0.3112	0.3110	0.3124	0.3054	0.3136	0.2953	0.3174	0.3078	0.3254	0.2950
9.0	0.3105		0.3124		0.3150		0.3176		0.3262	
9.1	0.3096	0.3097	0.3115	0.3056	0.3138	0.2929	0.3172	0.3049	0.3260	0.2938
9.2	0.3095		0.3110		0.3133		0.3164		0.3275	
9.3	0.3092	0.3060	0.3108	0.3026	0.3124	0.2891	0.3145	0.3018	0.3289	0.2891
9.4	0.3076		0.3090		0.3101		0.3119		0.3270	
9.5	0.3090	0.3043	0.3086	0.3014	0.3097	0.2891	0.3107	0.2995	0.3282	0.2872
9.6	0.3063		0.3086		0.3081		0.3095		0.3229	
9.8	0.3061	0.3045	0.3092	0.3011	0.3055	0.2875	0.3078	0.3000	0.3201	0.2847
10.0			0.3071				0.3063		0.3019	
10.0	0.3061		0.3091		0.3042		0.3058		0.3163	
10.2	0.3102		0.3110		0.3067		0.3073		0.3138	
10.4	0.3107		0.3110		0.3131		0.3117		0.3111	
10.6	0.3090	0.3063	0.3088	0.3023	0.3113	0.2887	0.3130	0.3037	0.3133	0.2902
10.8	0.3075		0.3075		0.3068		0.3123		0.3188	
11.0	0.3077		0.3138		0.3081		0.3145		0.3248	
11.2	0.3076		0.3102		0.3089		0.3136		0.3235	
11.4	0.3115	0.3052	0.3093	0.3024	0.3071	0.2907	0.3106	0.3023	0.3207	0.2892
11.6	0.3099		0.3109		0.3071		0.3096		0.3207	
11.8	0.3104		0.3110		0.3021		0.3066		0.3176	
12.0	0.3142		0.3136		0.3015		0.3143		0.3147	
12.2	0.3206	0.3175	0.3169	0.3129	0.3018	0.2909	0.3196	0.3146	0.3160	0.2969
12.6	0.3183		0.3177		0.3130		0.3255		0.3410	

Table I (Continued)
M_∞=1.5

x/D	P/P _i									
	α=0	ψ=0	α=4	ψ=4	α=3	ψ=3	α=-4	ψ=-4	α=-3	ψ=-3
0.8	0.3195	0.3231	0.3072	0.3235	0.2935	0.3048	0.3425	0.3212	0.3747	0.3077
0.8	0.3199	0.3247	0.3440	0.3292	0.3678	0.3132	0.3094	0.3224	0.3020	0.3176
1.4		0.3294		0.3270		0.3140		0.3332		0.3126
1.7	0.3231		0.3083		0.2966		0.3548		0.3781	
2.0	0.3280	0.3286	0.3083	0.3275	0.2988	0.3137	0.3526	0.3276	0.3823	0.3136
2.3	0.3305		0.3082		0.2999		0.3507		0.3818	
2.5	0.3313	0.3397	0.3114	0.3209	0.2952	0.3043	0.3495	0.3248	0.3824	0.3079
2.7	0.3305		0.3100		0.3000		0.3504		0.3811	
2.8	0.3279	0.3309	0.3058	0.3203	0.2980	0.3093	0.3513	0.3233	0.3725	0.3102
2.9	0.2015	0.2026	0.1901	0.1973	0.1849	0.1916	0.2191	0.1993	0.2349	0.1899
2.9	0.2065		0.2203		0.2379		0.1947		0.1878	
3.0	0.2078	0.2106	0.1956	0.2080	0.1934	0.2000	0.2265	0.2091	0.2429	0.1977
3.1	0.2143		0.2031		0.2022		0.2327		0.2511	
3.2	0.2186		0.2099		0.2092		0.2365		0.2552	
3.3	0.2232		0.2165		0.2154		0.2407		0.2557	
3.4	0.2281		0.2227		0.2211		0.2418		0.2575	
3.5	0.2318	0.2307	0.2232	0.2254	0.2253	0.2093	0.2437	0.2288	0.2612	0.2133
3.6	0.2319		0.2291		0.2270		0.2432		0.2614	
3.7	0.2396		0.2377		0.2379		0.2505		0.2649	
3.8	0.2428	0.2433	0.2417	0.2327	0.2415	0.2145	0.2527	0.2368	0.2651	0.2167
3.9	0.2468		0.2446		0.2438		0.2531		0.2646	
4.0	0.2493	0.2475	0.2480	0.2349	0.2457	0.2203	0.2527	0.2426	0.2656	0.2251
4.1	0.2515	0.2485	0.2500	0.2402	0.2491	0.2203	0.2534	0.2436	0.2689	0.2221
4.1										
4.2	0.2521		0.2513		0.2507		0.2531		0.2686	
4.3	0.2547	0.2480	0.2543	0.2413	0.2537	0.2172	0.2548	0.2451	0.2696	0.2220
4.4	0.2560		0.2557		0.2559		0.2570		0.2700	
4.5	0.2575	0.2512	0.2572	0.2463	0.2570	0.2208	0.2592	0.2484	0.2708	0.2276
4.6	0.2572		0.2579		0.2584		0.2600		0.2697	
4.7	0.2597	0.2500	0.2603	0.2433	0.2615	0.2196	0.2628	0.2454	0.2709	0.2264
4.8	0.2601		0.2599		0.2606		0.2631		0.2705	
4.9	0.2605	0.2565	0.2595	0.2480	0.2605	0.2270	0.2627	0.2513	0.2689	0.2317
5.0	0.2609		0.2603		0.2626		0.2628		0.2694	
5.1	0.2595	0.2595	0.2594	0.2505	0.2626	0.2269	0.2599	0.2513	0.2694	0.2310
5.2	0.2592		0.2595		0.2633		0.2584		0.2697	
5.3	0.2578	0.2613	0.2593	0.2504	0.2637	0.2233	0.2578	0.2515	0.2685	0.2320
5.4	0.2583		0.2600		0.2649		0.2598		0.2682	
5.5		0.2642		0.2516		0.2303		0.2556		0.2361
5.6	0.2591		0.2603		0.2665		0.2610		0.2662	
5.7	0.2603	0.2633	0.2611	0.2547	0.2706	0.2323	0.2624	0.2574	0.2672	0.2370
5.8	0.2605		0.2622		0.2701		0.2631		0.2682	
5.9	0.2598	0.2631	0.2619	0.2544	0.2685	0.2370	0.2626	0.2578	0.2661	0.2388

6.0	0.2611		0.2641		0.2693		0.2628		0.2665	
6.1	0.2633	0.2628	0.2668	0.2550	0.2703	0.2430	0.2641	0.2587	0.2661	0.2388
6.2	0.2619		0.2664		0.2685		0.2631		0.2637	
6.3	0.2629		0.2682		0.2689		0.2646		0.2639	
6.4	0.2630		0.2683		0.2699		0.2651		0.2676	
6.5	0.2636	0.2624	0.2686	0.2595	0.2740	0.2418	0.2642	0.2588	0.2695	0.2425
6.6	0.2655		0.2692		0.2793		0.2663		0.2720	
6.7		0.2641		0.2578		0.2418		0.2571		0.2439
6.8	0.2689		0.2679		0.2706		0.2650		0.2718	
6.9	0.2694	0.2672	0.2673	0.2582	0.2692	0.2416	0.2655	0.2576	0.2718	0.2444
7.0	0.2685		0.2668		0.2684		0.2655		0.2717	
7.2	0.2662		0.2681		0.2683		0.2656		0.2731	
7.3	0.2666		0.2654		0.2663		0.2669		0.2738	
7.4	0.2680		0.2663		0.2668		0.2681		0.2721	
7.5	0.2709	0.2676	0.2672	0.2607	0.2697	0.2429	0.2710	0.2651	0.2727	0.2452
7.6										
7.7	0.2720	0.2676	0.2663	0.2640	0.2710	0.2418	0.2750	0.2630	0.2740	0.2488
7.8	0.2692		0.2649		0.2694		0.2745		0.2738	
7.9	0.2672		0.2648		0.2687		0.2741		0.2742	
8.0	0.2650		0.2633		0.2676		0.2716		0.2751	
8.1										
8.2	0.2640		0.2647		0.2690		0.2708		0.2803	
8.3	0.2544		0.2652		0.2684		0.2694		0.2725	
8.4	0.2634		0.2671		0.2678		0.2682		0.2805	
8.5	0.2639	0.2649	0.2678	0.2573	0.2683	0.2451	0.2670	0.2593	0.2787	0.2462
8.6	0.2655		0.2665		0.2695		0.2672		0.2783	
8.7	0.2663	0.2647	0.2686	0.2601	0.2697	0.2471	0.2679	0.2605	0.2765	0.2488
8.9	0.2681	0.2632	0.2693	0.2603	0.2689	0.2471	0.2696	0.2590	0.2760	0.2475
9.0	0.2701		0.2695		0.2691		0.2695		0.2764	
9.1	0.2706	0.2644	0.2683	0.2598	0.2683	0.2461	0.2688	0.2605	0.2763	0.2488
9.2	0.2700		0.2679		0.2684		0.2677		0.2783	
9.3	0.2697	0.2650	0.2692	0.2604	0.2690	0.2447	0.2685	0.2598	0.2789	0.2467
9.4	0.2697		0.2696		0.2681		0.2678		0.2774	
9.5	0.2697	0.2659	0.2700	0.2586	0.2676	0.2447	0.2685	0.2596	0.2782	0.2440
9.6	0.2694		0.2702		0.2764		0.2689		0.2749	
9.8	0.2691	0.2672	0.2701	0.2599	0.2671	0.2469	0.2733	0.2619	0.2750	0.2476
10.0	0.2702		0.2732		0.2797		0.2699		0.2678	
10.0	0.2704		0.2695		0.2662		0.2737		0.2747	
10.2	0.2706		0.2700		0.2687		0.2734		0.2769	
10.4	0.2710		0.2695		0.2684		0.2722		0.2785	
10.6	0.2705	0.2753	0.2686	0.2662	0.2678	0.2508	0.2717	0.2678	0.2824	0.2521
10.8	0.2703		0.2706		0.2653		0.2733		0.2814	
11.0	0.2728		0.2736		0.2660		0.2758		0.2816	
11.2	0.2737		0.2747		0.2681		0.2779		0.2820	
11.4	0.2729	0.2682	0.2712	0.2633	0.2689	0.2518	0.2777	0.2650	0.2829	0.2565
11.6	0.2703		0.2690		0.2677		0.2751		0.2857	
11.8	0.2679		0.2657		0.2658		0.2727		0.2850	
12.0	0.2650		0.2645		0.2623		0.2704		0.2818	
12.2	0.2641	0.2743	0.2675	0.2675	0.2613	0.2499	0.2698	0.2675	0.2805	0.2502
12.6	0.2730		0.2718		0.2629		0.2662		0.2760	

Table I (Concluded)
 $M_\infty = 1.6$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.2938	0.2914	0.2784	0.2836	0.2666	0.2685	0.3107	0.2829	0.3357	0.2713
0.8	0.2941	0.2953	0.3127	0.2914	0.3399	0.2814	0.2748	0.2880	0.2635	0.2756
1.4		0.2855		0.2849		0.2722		0.2820		0.2693
1.7	0.2833		0.2655		0.2564		0.3083		0.3329	
2.0	0.2832	0.2796	0.2661	0.2774	0.2550	0.2622	0.3060	0.2777	0.3311	0.2593
2.3	0.2866		0.2635		0.2554		0.3052		0.3287	
2.5	0.2802	0.2752	0.2604	0.2761	0.2559	0.2572	0.3073	0.2708	0.3252	0.2604
2.7	0.2803		0.2669		0.2521		0.3042		0.3352	
2.8	0.2802	0.2751	0.2671	0.2849	0.2494	0.2565	0.3033	0.2725	0.3361	0.2585
2.9	0.1705	0.1741	0.1630	0.1716	0.1527	0.1566	0.1860	0.1668	0.2116	0.1587
2.9	0.1715		0.1829		0.2036		0.1641		0.1609	
3.0	0.1749	0.1867	0.1658	0.1774	0.1565	0.1704	0.1900	0.1738	0.2165	0.1700
3.1	0.1794		0.1713		0.1631		0.1947		0.2194	
3.2	0.1828		0.1783		0.1687		0.1974		0.2211	
3.3	0.1874		0.1868		0.1745		0.1998		0.2221	
3.4	0.1958		0.1925		0.1816		0.2039		0.2235	
3.5	0.2013	0.2005	0.1961	0.1916	0.1862	0.1792	0.2046	0.2005	0.2226	0.1829
3.6	0.1993		0.1953		0.1873		0.2050		0.2219	
3.7	0.2042		0.2011		0.1976		0.2124		0.2258	
3.8	0.2054	0.2059		0.1985	0.2011	0.1825	0.2159	0.2041	0.2283	0.1848
3.9	0.2079		0.2041		0.2033		0.2175		0.2301	
4.0	0.2113	0.2121	0.2076	0.2051	0.2073	0.1937	0.2197	0.2029	0.2319	0.1916
4.1	0.2121	0.2121	0.2105	0.2061	0.2095	0.1919	0.2225	0.2054	0.2350	0.1916
4.1	0.2162		0.2146		0.2190		0.2245		0.2342	
4.2	0.2106		0.2130		0.2153		0.2224		0.2341	
4.3	0.2110	0.2092	0.2149	0.2115	0.2192	0.1884	0.2226	0.2056	0.2330	0.1888
4.4	0.2115		0.2158		0.2212		0.2222		0.2337	
4.5	0.2146	0.2129	0.2178	0.2140	0.2234	0.1861	0.2229	0.2133	0.2357	0.1865
4.6	0.2172		0.2189		0.2233		0.2218		0.2341	
4.7	0.2201	0.2149	0.2202	0.2100	0.2244	0.1785	0.2236	0.2074	0.2359	0.1793
4.8	0.2192		0.2198		0.2234		0.2210		0.2336	
4.9	0.2185	0.2282	0.2199	0.2147	0.2222	0.1848	0.2185	0.2125	0.2312	0.1878
5.0	0.2214		0.2215		0.2231		0.2194		0.2311	
5.1	0.2228	0.2254	0.2210	0.2135	0.2233	0.1884	0.2187	0.2147	0.2303	0.1893
5.2	0.2229		0.2214		0.2246		0.2217		0.2326	
5.3	0.2229	0.2263	0.2218	0.2152	0.2254	0.1899	0.2229	0.2152	0.2350	0.1918
5.4	0.2234		0.2241		0.2277		0.2245		0.2352	
5.5		0.2258		0.2180		0.1948		0.2158		0.1975
5.6	0.2223		0.2256		0.2308		0.2267		0.2321	
5.7	0.2241	0.2251	0.2272	0.2196	0.2327	0.1980	0.2291	0.2167	0.2323	0.1992
5.8	0.2252		0.2288		0.2338		0.2284		0.2305	
5.9	0.2241	0.2264	0.2297	0.2197	0.2348	0.1985	0.2274	0.2201	0.2277	0.2005

6.0	0.2255		0.2309		0.2349		0.2278		0.2276	
6.1	0.2263	0.2282	0.2327	0.2199	0.2356	0.2003	0.2286	0.2210	0.2302	0.2019
6.2	0.2247		0.2310		0.2326		0.2255		0.2287	
6.3	0.2266		0.2320		0.2324		0.2254		0.2320	
6.4	0.2277		0.2320		0.2331		0.2267		0.2315	
6.5	0.2288	0.2272	0.2312	0.2201	0.2335	0.2019	0.2283	0.2250	0.2336	0.2081
6.6	0.2312		0.2325		0.2341		0.2295		0.2303	
6.7		0.2253		0.2190		0.2049		0.2238		0.2077
6.8	0.2324		0.2316		0.2354		0.2307		0.2343	
6.9	0.2318	0.2235	0.2310	0.2194	0.2348	0.2047	0.2316	0.2221	0.2349	0.2082
7.0	0.2313		0.2309		0.2339		0.2332		0.2353	
7.2	0.2322		0.2336		0.2359		0.2364		0.2392	
7.3	0.2272		0.2301		0.2312		0.2314		0.2367	
7.4	0.2253		0.2289		0.2290		0.2298		0.2355	
7.5	0.2258	0.2255	0.2284	0.2203	0.2285	0.2045	0.2305	0.2196	0.2382	0.2099
7.6										
7.7	0.2273	0.2362	0.2282	0.2214	0.2280	0.2056	0.2302	0.2236	0.2409	0.2102
7.8	0.2259		0.2265		0.2271		0.2279		0.2394	
7.9	0.2254		0.2273		0.2276		0.2272		0.2369	
8.0	0.2239		0.2263		0.2272		0.2255		0.2345	
8.1										
8.2	0.2265		0.2271		0.2300		0.2243		0.2333	
8.3	0.2275		0.2267		0.2273		0.2231		0.2315	
8.4	0.2293		0.2278		0.2274		0.2251		0.2332	
8.5	0.2282	0.2295	0.2276	0.2225	0.2255	0.2063	0.2280	0.2233	0.2330	0.2076
8.6	0.2287		0.2281		0.2255		0.2315		0.2338	
8.7	0.2288	0.2278	0.2292	0.2234	0.2256	0.2092	0.2325	0.2219	0.2348	0.2123
8.9	0.2296	0.2258	0.2298	0.2206	0.2279	0.2070	0.2329	0.2210	0.2382	0.2083
9.0	0.2293		0.2292		0.2291		0.2331		0.2389	
9.1	0.2287	0.2260	0.2289	0.2208	0.2300	0.2067	0.2332	0.2216	0.2387	0.2080
9.2	0.2278		0.2285		0.2300		0.2340		0.2380	
9.3	0.2274	0.2296	0.2293	0.2256	0.2297	0.2043	0.2355	0.2237	0.2394	0.2090
9.4	0.2264		0.2288		0.2267		0.2339		0.2385	
9.5	0.2274	0.2295	0.2305	0.2239	0.2257	0.2095	0.2326	0.2254	0.2512	0.2105
9.6	0.2286		0.2318		0.2281		0.2311		0.2392	
9.8	0.2327	0.2272	0.2334	0.2261	0.2286	0.2150	0.2281	0.2265	0.2395	0.2108
10.0	0.2342		0.2286		0.2408		0.2315		0.2291	
10.0	0.2322		0.2311		0.2298		0.2271		0.2360	
10.2	0.2319		0.2291		0.2264		0.2326		0.2355	
10.4	0.2288		0.2285		0.2248		0.2358		0.2389	
10.6	0.2254	0.2297	0.2270	0.2220	0.2237	0.2081	0.2323	0.2256	0.2409	0.2106
10.8	0.2265		0.2279		0.2216		0.2303		0.2394	
11.0	0.2304		0.2300		0.2234		0.2291		0.2372	
11.2	0.2321		0.2318		0.2247		0.2324		0.2377	
11.4	0.2312	0.2228	0.2304	0.2199	0.2242	0.2070	0.2359	0.2217	0.2380	0.2113
11.6	0.2315		0.2324		0.2245		0.2351		0.2427	
11.8	0.2311		0.2308		0.2237		0.2316		0.2417	
12.0	0.2293		0.2315		0.2267		0.2313		0.2412	
12.2	0.2301	0.2319	0.2330	0.2275	0.2276	0.2097	0.2326	0.2250	0.2392	0.2121
12.6	0.2329		0.2348		0.2267		0.2324		0.2404	

TABLE II
40-DEG CONE-CYLINDER STATIC PRESSURE DISTRIBUTIONS
 $M_\infty = 0.6$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.4	0.8430	0.8448	0.8272	0.8400	0.8122	0.8289	0.8595	0.8405	0.8773	0.8300
0.4	0.8442	0.8457	0.8605	0.8409	0.8786	0.8306	0.8295	0.8421	0.8144	0.8335
0.7	0.8256		0.8098		0.7956		0.8428		0.8613	
1.0		0.8015		0.7972		0.7930		0.7971		0.7922
1.2	0.7716		0.7580		0.7461		0.7854		0.8023	
1.3	0.7316	0.7321	0.7209	0.7266	0.7113	0.7250	0.7448	0.7258	0.7610	0.7232
1.4	0.5546	0.5518	0.5599	0.5528	0.5740	0.5486	0.5653	0.5483	0.5909	0.5495
1.4	0.5619		0.5660		0.5912		0.5785		0.5791	
1.5	0.7043	0.7007	0.6815	0.7028	0.6740	0.7040	0.7211	0.7048	0.7348	0.7033
1.6	0.7462		0.7405		0.7375		0.7495		0.7563	
1.7	0.7567	0.7565	0.7561	0.7536	0.7560	0.7449	0.7587	0.7533	0.7649	0.7459
1.8	0.7622		0.7624		0.7634		0.7641		0.7698	
1.9		0.7655		0.7623		0.7546		0.7623		0.7550
2.0	0.7695		0.7694		0.7713		0.7707		0.7757	
2.2	0.7730		0.7731		0.7752		0.7744		0.7788	
2.3	0.7745	0.7740	0.7747	0.7713	0.7767	0.7620	0.7757	0.7708	0.7804	0.7640
2.4	0.7759		0.7759		0.7780		0.7769		0.7813	
2.5	0.7764	0.7770	0.7765	0.7738	0.7785	0.7653	0.7772	0.7737	0.7816	0.7664
2.6	0.7779		0.7780		0.7801		0.7789		0.7832	
2.7	0.7782	0.7783	0.7779	0.7742	0.7803	0.7670	0.7792	0.7747	0.7831	0.7679
2.8	0.7778		0.7779		0.7801		0.7786		0.7826	
2.9	0.7791	0.7788	0.7794	0.7759	0.7813	0.7676	0.7800	0.7761	0.7842	0.7688
3.0	0.7797		0.7798		0.7817		0.7807		0.7845	
3.1		0.7804		0.7775		0.7687		0.7774		0.7699
3.2	0.7795		0.7797		0.7819		0.7805		0.7844	
3.3		0.7813		0.7786		0.7688		0.7783		0.7702
3.4	0.7807		0.7809		0.7826		0.7817		0.7857	
3.5	0.7810	0.7818	0.7812	0.7783	0.7829	0.7700	0.7820	0.7790	0.7859	0.7722
3.6	0.7802		0.7802		0.7819		0.7810		0.7849	
3.7	0.7817	0.7815	0.7821	0.7780	0.7836	0.7702	0.7829	0.7787	0.7869	0.7717
3.8	0.7812		0.7815		0.7830		0.7822		0.7861	
3.9	0.7823	0.7821	0.7821	0.7788	0.7837	0.7706	0.7824	0.7791	0.7863	0.7720
4.0	0.7814		0.7814		0.7830		0.7822		0.7858	
4.1	0.7817	0.7823	0.7818	0.7791	0.7832	0.7705	0.7822	0.7793	0.7863	0.7725
4.3	0.7815	0.7821	0.7815	0.7770	0.7828	0.7707	0.7823	0.7794	0.7861	0.7724
4.4	0.7819		0.7821		0.7830		0.7829		0.7866	
4.5		0.7824		0.7789		0.7709		0.7796		0.7729
4.6	0.7821		0.7824		0.7829		0.7829		0.7849	
4.7	0.7823	0.7821	0.7823	0.7791	0.7832	0.7712	0.7826	0.7796	0.7869	0.7726
4.8	0.7824		0.7823		0.7833		0.7829		0.7870	

4.9	0.7823	0.7819	0.7822	0.7795	0.7831	0.7711	0.7832	0.7789	0.7870	0.7723
5.0	0.7826		0.7825		0.7833		0.7831		0.7872	
5.1	0.7839	0.7837	0.7838	0.7805	0.7843	0.7723	0.7843	0.7805	0.7890	0.7732
5.3	0.7822	0.7831	0.7819	0.7796	0.7822	0.7718	0.7825	0.7803	0.7872	0.7732
5.4	0.7823		0.7822		0.7827		0.7835		0.7868	
5.5	0.7807	0.7828	0.7823	0.7793	0.7825	0.7718	0.7826	0.7801	0.7856	0.7727
5.6										
5.7		0.7812		0.7787		0.7704		0.7798		0.7743
5.8	0.7828		0.7827		0.7830		0.7838		0.7877	
5.9	0.7829	0.7852	0.7830	0.7820	0.7831	0.7723	0.7836	0.7803	0.7873	0.7727
6.0	0.7832		0.7834		0.7834		0.7842		0.7883	
6.3	0.7826		0.7820		0.7823		0.7828		0.7874	
6.4	0.7830		0.7829		0.7828		0.7838		0.7874	
6.5	0.7828	0.7829	0.7830	0.7793	0.7828	0.7719	0.7836	0.7801	0.7876	0.7739
6.7	0.7839	0.7837	0.7836	0.7807	0.7835	0.7733	0.7845	0.7812	0.7886	0.7747
6.8	0.7835		0.7832		0.7828		0.7841		0.7883	
6.9	0.7838		0.7837		0.7835		0.7848		0.7888	
7.0	0.7831		0.7830		0.7828		0.7838		0.7877	
7.2	0.7839		0.7836		0.7832		0.7843		0.7884	
7.3	0.7835		0.7834		0.7830		0.7843		0.7881	
7.4	0.7829		0.7830		0.7824		0.7836		0.7875	
7.5	0.7831	0.7850	0.7829	0.7818	0.7826	0.7751	0.7834	0.7825	0.7879	0.7768
7.6	0.7833		0.7832		0.7832		0.7843		0.7881	
7.7	0.7837	0.7829	0.7834	0.7810	0.7830	0.7753	0.7845	0.7823	0.7886	0.7764
7.8	0.7835		0.7839		0.7835		0.7847		0.7884	
7.9	0.7824	0.7831	0.7828	0.7799	0.7824	0.7721	0.7840	0.7804	0.7881	0.7741
8.0	0.7838		0.7837		0.7831		0.7846		0.7886	
8.1	0.7840	0.7836	0.7834	0.7806	0.7817	0.7730	0.7845	0.7806	0.7872	0.7748
8.2	0.7841		0.7838		0.7834		0.7849		0.7892	
8.3	0.7835	0.7831	0.7833	0.7804	0.7830	0.7733	0.7844	0.7804	0.7884	0.7747
8.5		0.7847		0.7820		0.7742		0.7819		0.7759
8.6	0.7833		0.7834		0.7824		0.7840		0.7881	
8.8	0.7843	0.7825	0.7840	0.7817	0.7832	0.7752	0.7851	0.7825	0.7892	0.7761
9.0										
9.0	0.7831		0.7832		0.7830		0.7842		0.7881	
9.2	0.7835		0.7839		0.7831		0.7848		0.7890	
9.4	0.7836		0.7831		0.7826		0.7843		0.7884	
9.6	0.7846	0.7848	0.7843	0.7818	0.7839	0.7749	0.7856	0.7820	0.7895	0.7761
9.8	0.7845		0.7840		0.7834		0.7853		0.7895	
10.0	0.7854		0.7851		0.7849		0.7870			
10.2	0.7858		0.7853		0.7855		0.7873		0.7911	
10.4	0.7860	0.7861	0.7854	0.7831	0.7855	0.7762	0.7870	0.7833	0.7913	0.7781
10.6	0.7858		0.7853		0.7852		0.7870		0.7911	
10.8	0.7856		0.7851		0.7856		0.7872		0.7911	
11.0	0.7857		0.7852		0.7850		0.7861		0.7902	
11.2	0.7865	0.7856	0.7860	0.7831	0.7864	0.7768	0.7877	0.7834	0.7917	0.7780
11.4	0.7863		0.7859		0.7858		0.7872		0.7911	
11.6	0.7871		0.7866		0.7867		0.7873		0.7913	

Table II (Continued)
 $M_\infty = 0.8$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.4	0.7594	0.7607	0.7365	0.7560	0.7141	0.7397	0.7836	0.7563	0.8098	0.7405
0.4	0.7620	0.7620	0.7867	0.7573	0.8103	0.7418	0.7338	0.7582	0.7168	0.7451
0.7	0.7353		0.7129		0.6906		0.7607		0.7866	
1.0		0.7050		0.6975		0.6900		0.6966		0.6901
1.2	0.6695		0.6512		0.6335		0.6889		0.7117	
1.3	0.6328	0.6339	0.6178	0.6239	0.6031	0.6192	0.6489	0.6231	0.6684	0.6197
1.4		0.3277		0.3290		0.3284		0.3678		0.3124
1.4	0.2955		0.2990		0.2985		0.3694		0.4657	
1.5	0.4219	0.4168	0.4216	0.4009	0.4894	0.4203	0.4076	0.4010	0.4453	0.4228
1.6	0.4863		0.4674		0.4934		0.5342		0.6011	
1.7	0.5507	0.5503	0.5208	0.5320	0.5050	0.4996	0.6318	0.5245	0.6429	0.4879
1.8	0.5986		0.5730		0.5272		0.6396		0.6385	
1.9		0.6025		0.6015		0.5841		0.5987		0.5862
2.0	0.6370		0.6278		0.5713		0.6388		0.6406	
2.2	0.6452		0.6455		0.6164		0.6424		0.6452	
2.3	0.6465	0.6466	0.6485	0.6429	0.6321	0.6235	0.6440	0.6420	0.6479	0.6254
2.4	0.6473		0.6504		0.6445		0.6458		0.6492	
2.5	0.6479	0.6488	0.6506	0.6451	0.6493	0.6286	0.6469	0.6444	0.6504	0.6300
2.6	0.6494		0.6518		0.6537		0.6489		0.6527	
2.7	0.6493	0.6498	0.6517	0.6455	0.6550	0.6322	0.6488	0.6454	0.6532	0.6334
2.8	0.6484		0.6510		0.6542		0.6486		0.6531	
2.9	0.6503	0.6501	0.6521	0.6466	0.6561	0.6325	0.6506	0.6462	0.6554	0.6345
3.0	0.6506		0.6525		0.6560		0.6512		0.6561	
3.1	0.6420	0.6509	0.6517	0.6480	0.6558	0.6344	0.6294	0.6470	0.6233	0.6359
3.2	0.6503		0.6519		0.6543		0.6507		0.6563	
3.3	0.6423	0.6513	0.6467	0.6489	0.6479	0.6348	0.6300	0.6482	0.6249	0.6368
3.4	0.6517		0.6530		0.6550		0.6526		0.6581	
3.5	0.6523	0.6536	0.6536	0.6504	0.6542	0.6370	0.6535	0.6502	0.6587	0.6396
3.6	0.6513		0.6526		0.6535		0.6525		0.6579	
3.7	0.6538	0.6511	0.6548	0.6479	0.6551	0.6348	0.6559	0.6472	0.6616	0.6365
3.8	0.6531		0.6542		0.6541		0.6542		0.6599	
3.9	0.6528	0.6534	0.6545	0.6504	0.6550	0.6374	0.6538	0.6497	0.6597	0.6388
4.0	0.6526		0.6538		0.6537		0.6541		0.6595	
4.1	0.6528	0.6541	0.6542	0.6517	0.6535	0.6403	0.6539	0.6505	0.6595	0.6396
4.3	0.6529	0.6534	0.6541	0.6505	0.6531	0.6370	0.6539	0.6495	0.6598	0.6392
4.4	0.6535		0.6545		0.6533		0.6544		0.6604	
4.5		0.6539		0.6502		0.6375		0.6503		0.6403
4.6	0.6538		0.6542		0.6531		0.6543		0.6584	
4.7	0.6538	0.6537	0.6547	0.6510	0.6534		0.6549	0.6508	0.6602	0.6397
4.8	0.6539		0.6548		0.6535		0.6550		0.6602	

4.9	0.6540	0.6543	0.6548	0.6518	0.6527	0.6389	0.6547	0.6506	0.6605	0.6392
5.0	0.6542		0.6550		0.6535		0.6552		0.6607	
5.1	0.6556	0.6542	0.6560	0.6524	0.6547	0.6381	0.6567	0.6527	0.6625	0.6411
5.3	0.6540	0.6546	0.6545	0.6511	0.6531	0.6391	0.6551	0.6513	0.6607	0.6408
5.4	0.6539		0.6545		0.6536		0.6550		0.6604	
5.5	0.6550	0.6544	0.6540	0.6514	0.6530	0.6394	0.6552	0.6513	0.6636	0.6403
5.6										
5.7		0.6532		0.6508		0.6382		0.6496		0.6399
5.8										
5.9	0.6545	0.6549	0.6555	0.6541	0.6533	0.6409	0.6555	0.6526	0.6609	0.6411
6.0	0.6559		0.6562		0.6541		0.6566		0.6627	
6.3	0.6541		0.6558		0.6530		0.6559		0.6613	
6.4	0.6555		0.6556		0.6534		0.6566		0.6620	
6.5	0.6548	0.6547	0.6554	0.6515	0.6530	0.6395	0.6557	0.6513	0.6613	0.6415
6.7	0.6559	0.6558	0.6565	0.6528	0.6542	0.6409	0.6573	0.6546	0.6629	0.6423
6.8	0.6559		0.6563		0.6539		0.6570		0.6627	
6.9	0.6562		0.6568		0.6542		0.6575		0.6632	
7.0	0.6551		0.6558		0.6530		0.6561		0.6614	
7.2	0.6559				0.6548		0.6572		0.6627	
7.3	0.6555		0.6561		0.6532		0.6564		0.6622	
7.4	0.6554		0.6561		0.6529		0.6566		0.6623	
7.5	0.6552	0.6571	0.6561	0.6539	0.6530	0.6422	0.6563	0.6535	0.6622	0.6442
7.6	0.6553		0.6563		0.6537		0.6568		0.6625	
7.7	0.6561	0.6564	0.6565	0.6545	0.6552	0.6427	0.6574	0.6536	0.6632	0.6444
7.8	0.6567		0.6565		0.6540		0.6562		0.6638	
7.9	0.6558	0.6555	0.6566	0.6525	0.6533	0.6408	0.6566	0.6518	0.6623	0.6420
8.0	0.6565		0.6555		0.6540		0.6576		0.6634	
8.1	0.6548	0.6562	0.6561	0.6529	0.6523	0.6414	0.6570	0.6526	0.6631	0.6431
8.2	0.6568		0.6571		0.6541		0.6581		0.6638	
8.3	0.6566	0.6555	0.6572	0.6531	0.6542	0.6414	0.6572	0.6524	0.6629	0.6423
8.5		0.6571		0.6543		0.6431		0.6539		0.6449
8.6	0.6562		0.6566		0.6533		0.6573		0.6636	
8.8	0.6570	0.6559	0.6576	0.6543	0.6545	0.6436	0.6581	0.6542	0.6638	0.6448
9.0										
9.0	0.6562		0.6568		0.6541		0.6575		0.6639	
9.2	0.6569		0.6573		0.6542		0.6584		0.6638	
9.4	0.6569		0.6575		0.6541		0.6582		0.6640	
9.6	0.6575	0.6579	0.6578	0.6550	0.6547	0.6439	0.6590	0.6543	0.6650	0.6454
9.8	0.6579		0.6584		0.6552		0.6596		0.6660	
10.0	0.6592						0.6612		0.6667	
10.2	0.6583		0.6593		0.6576		0.6616		0.6675	
10.4	0.6598	0.6595	0.6603	0.6571	0.6573	0.6459	0.6616	0.6564	0.6673	0.6476
10.6	0.6601		0.6607		0.6576		0.6618		0.6674	
10.8	0.6601		0.6607		0.6570		0.6612		0.6668	
11.0	0.6602		0.6604		0.6577		0.6616		0.6671	
11.2	0.6618	0.6603	0.6624	0.6579	0.6594	0.6484	0.6636	0.6575	0.6692	0.6488
11.4	0.6619		0.6627		0.6598		0.6632		0.6686	
11.6	0.6625		0.6636		0.6605		0.6634		0.6684	

Table II (Continued)
 $M_\infty = 0.9$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.4	0.7267	0.7294	0.7002	0.7215	0.6766	0.7061	0.7544	0.7250	0.7831	0.7079
0.4	0.7300	0.7305	0.7568	0.7239	0.7862	0.7081	0.7063	0.7268	0.6803	0.7133
0.7	0.7026		0.6752		0.6510		0.7320		0.7595	
1.0		0.6736		0.6663		0.6560		0.6649		0.6578
1.2	0.6415		0.6196		0.5990		0.6638		0.6871	
1.3	0.6102	0.6117	0.5918	0.6061	0.5738	0.5930	0.6282	0.6028	0.6481	0.5960
1.4		0.2648		0.2641		0.2645		0.2659		0.2664
1.4	0.2367		0.2363		0.2361		0.2371		0.2383	
1.5	0.2679	0.2394	0.2415	0.2338	0.2425	0.2293	0.2510	0.2338	0.2789	0.2308
1.6	0.2647		0.2819		0.2829		0.2689		0.3327	
1.7	0.3051	0.3060	0.2812	0.3074	0.2811	0.3152	0.3377	0.3041	0.3841	0.3054
1.8	0.3378		0.4117		0.4371		0.3582		0.4113	
1.9		0.3572		0.3475		0.4629		0.3484		0.4523
2.0	0.5310		0.4914		0.4741		0.5506		0.5779	
2.2	0.6094		0.5733		0.5163		0.6123		0.6050	
2.3	0.6224	0.6229	0.6012		0.5391	0.5699	0.6149	0.6130	0.6049	0.5730
2.4	0.6217		0.6199		0.5626		0.6134		0.6050	
2.5	0.6137	0.6149	0.6192	0.6048	0.5782	0.5694	0.6081	0.6073	0.6013	0.5734
2.6	0.6095		0.6159		0.5920		0.6061		0.6015	
2.7	0.6046	0.6047	0.6105	0.5970	0.6000	0.5706	0.6025	0.5999	0.5995	0.5746
2.8	0.6003		0.6050		0.6038		0.5995		0.5977	
2.9	0.5989	0.5994	0.6028	0.5922	0.6066	0.5710	0.5990	0.5948	0.5990	0.5746
3.0	0.5973		0.6003		0.6065		0.5977		0.5992	
3.1	0.5964	0.5959	0.5973	0.5893	0.6016	0.5726	0.5996	0.5916	0.6025	0.5752
3.2	0.5935		0.5957		0.6037		0.5951		0.5979	
3.3		0.5943		0.5867		0.5714		0.5913		0.5756
3.4	0.5926		0.5938		0.6010		0.5945		0.5987	
3.5	0.5929	0.5943	0.5933	0.5876	0.5991	0.5731	0.5948	0.5907	0.5995	0.5775
3.6	0.5911		0.5917		0.5976		0.5929		0.5977	
3.7	0.5934	0.5907	0.5938	0.5836	0.5982	0.5700	0.5938	0.5867	0.5997	0.5734
3.8	0.5920		0.5920		0.5965		0.5940		0.5997	
3.9	0.5918	0.5924	0.5918	0.5858	0.5961	0.5729	0.5938	0.5884	0.5990	0.5763
4.0	0.5914		0.5916		0.5947		0.5934		0.5990	
4.1	0.5912	0.5935	0.5909	0.5823	0.5943	0.5760	0.5936	0.5907	0.5988	0.5791
4.3	0.5906	0.5908	0.5899	0.5845	0.5934	0.5717	0.5929	0.5879	0.5986	0.5753
4.4	0.5909		0.5902		0.5931		0.5931		0.5995	
4.5		0.5911		0.5840		0.5722		0.5876		0.5761
4.6	0.5897		0.5902		0.5928		0.5938		0.5992	
4.7	0.5911	0.5911	0.5906	0.5840	0.5924	0.5722	0.5935	0.5876	0.5992	
4.8	0.5910		0.5905		0.5923		0.5936		0.5995	

4.9	0.5910	0.5917	0.5899	0.5850	0.5923	0.5724	0.5937	0.5884	0.5999	0.5756
5.0	0.5914		0.5909		0.5922		0.5938		0.5997	
5.1	0.5928	0.5922	0.5924	0.5859	0.5937	0.5736	0.5952	0.5890	0.5999	0.5764
5.3	0.5914	0.5915	0.5905	0.5852	0.5907	0.5732	0.5931	0.5880	0.5988	0.5761
5.4	0.5907		0.5898		0.5910		0.5933		0.5993	
5.5	0.5929	0.5910	0.5941	0.5846	0.6002	0.5735	0.5928	0.5877	0.5963	0.5761
5.6										
5.7		0.5899		0.5854		0.5742		0.5874		0.5760
5.8										
5.9	0.5912	0.5940	0.5905	0.5873	0.5907	0.5737	0.5936	0.5907	0.5993	0.5755
6.0	0.5925		0.5909		0.5922		0.5949		0.6011	
6.3	0.5916								0.5990	
6.4	0.5922		0.5909		0.5910		0.5947		0.5999	
6.5	0.5915	0.5913	0.5907	0.5850	0.5910	0.5736	0.5938	0.5886	0.5995	0.5770
6.7	0.5930	0.5927	0.5918	0.5864	0.5924	0.5756	0.5959	0.5897	0.6015	0.5779
6.8	0.5927		0.5916		0.5916		0.5956		0.6013	
6.9	0.5932		0.5921		0.5920		0.5957		0.6017	
7.0	0.5916		0.5907		0.5906		0.5942		0.5997	
7.2	0.5934		0.5925		0.5926		0.5961		0.6018	
7.3	0.5920		0.5909		0.5911		0.5945		0.6004	
7.4	0.5915		0.5905		0.5905		0.5941		0.5999	
7.5	0.5923	0.5943	0.5907	0.5877	0.5906	0.5772	0.5947	0.5916	0.6004	0.5800
7.6	0.5928		0.5916		0.5915		0.5954		0.6009	
7.7	0.5929	0.5930	0.5918	0.5891	0.5912	0.5782	0.5956	0.5924	0.6015	0.5799
7.8	0.5930		0.5898		0.5922		0.5945		0.5995	
7.9	0.5927	0.5921	0.5918	0.5860	0.5907	0.5752	0.5950	0.5894	0.6011	0.5786
8.0	0.5933		0.5923		0.5916		0.5948		0.6022	
8.1	0.5930	0.5929	0.5905	0.5867	0.5908	0.5758	0.5956	0.5901	0.6013	0.5792
8.2	0.5938		0.5925		0.5921		0.5965		0.6024	
8.3	0.5933	0.5929	0.5922	0.5872	0.5913	0.5761	0.5960	0.5897	0.6017	0.5790
8.5		0.5942		0.5876		0.5778		0.5918		0.5809
8.6	0.5934		0.5912		0.5911		0.5959		0.6020	
8.8	0.5941	0.5923	0.5931	0.5881	0.5919	0.5788	0.5970	0.5920	0.6029	0.5816
9.0										
9.0	0.5938		0.5923		0.5924		0.5963		0.6022	
9.2	0.5943		0.5930		0.5912		0.5968		0.6027	
9.4	0.5940		0.5928		0.5912		0.5968		0.6026	
9.6	0.5949	0.5946	0.5933	0.5891	0.5926	0.5792	0.5977	0.5922	0.6036	0.5817
9.8	0.5953		0.5942		0.5932		0.5982		0.6049	
10.0	0.5971		0.5959		0.5955		0.5999			
10.2	0.5961		0.5964		0.5961		0.6008		0.6070	
10.4	0.5979	0.5972	0.5968	0.5917	0.5961	0.5822	0.6011	0.5948	0.6071	0.5850
10.6	0.5982		0.5971		0.5964		0.6015		0.6073	
10.8	0.5986		0.5975		0.5963		0.6008		0.6071	
11.0	0.5988		0.5977		0.5967		0.6013		0.6069	
11.2	0.6005	0.5994	0.5998	0.5949	0.5990	0.5847	0.6036	0.5972	0.6095	0.5873
11.4	0.6012		0.6005		0.5999		0.6040		0.6097	
11.6	0.6021		0.6012		0.6011		0.6042		0.6094	

Table II (Continued)
 $M_\infty = 0.95$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.4	0.7165	0.7181	0.6897	0.7133	0.6643	0.6963	0.7446	0.7119	0.7740	0.6958
0.4	0.7188	0.7194	0.7480	0.7144	0.7779	0.6984	0.6918	0.7143	0.6672	0.7003
0.7	0.6927		0.6656		0.6393		0.7213		0.7504	
1.0		0.6645		0.6611		0.6460		0.6562		0.6458
1.2	0.6337		0.6120		0.5894		0.6564		0.6802	
1.3	0.6041	0.6058	0.5864	0.6023	0.5662	0.5876	0.6227	0.5995	0.6426	0.5872
1.4		0.2331		0.2342		0.2339		0.2332		0.2331
1.4	0.2057		0.2073		0.2065		0.2065		0.2050	
1.5	0.2349	0.2345	0.2169	0.2318	0.2169	0.2258	0.2508	0.2289	0.2731	0.2243
1.6	0.2663		0.2533		0.2427		0.2950		0.3260	
1.7	0.2936	0.2945	0.2689	0.2948	0.2516	0.2948	0.3260	0.2917	0.3668	0.2911
1.8	0.3228		0.3055		0.2814		0.3645		0.4002	
1.9		0.3225		0.3244		0.3271		0.3226		0.3244
2.0	0.3660		0.3425		0.3214		0.4009		0.4400	
2.2	0.4097		0.3932		0.4363		0.4323		0.4630	
2.3	0.4269	0.4255	0.4233	0.4207	0.4827		0.4443	0.4201	0.4695	0.4044
2.4	0.4442		0.4816		0.5125		0.4563		0.4759	
2.5	0.4622	0.4605	0.5326	0.4482	0.5292	0.4208	0.4624	0.4553	0.4772	0.4212
2.6	0.5175		0.5592		0.5471		0.4735		0.4819	
2.7	0.5568	0.5585	0.5735	0.5553	0.5621	0.5298	0.5197	0.5569	0.4864	0.5242
2.8	0.5714		0.5817		0.5757		0.5615		0.5201	
2.9	0.5794	0.5799	0.5876	0.5751	0.5867	0.5572	0.5759	0.5781	0.5605	0.5578
3.0	0.5837		0.5906		0.5936		0.5817		0.5779	
3.1	0.5851	0.5856	0.5927	0.5805	0.5967	0.5631	0.5806	0.5816	0.5788	0.5626
3.2	0.5846		0.5891		0.5939		0.5825		0.5857	
3.3		0.5860		0.5820		0.5626		0.5818		0.5643
3.4	0.5845		0.5878		0.5921		0.5846		0.5865	
3.5	0.5837	0.5845	0.5864	0.5795	0.5899	0.5620	0.5837	0.5798	0.5862	0.5640
3.6	0.5812		0.5831		0.5866		0.5813		0.5835	
3.7	0.5813	0.5794	0.5826	0.5741	0.5850	0.5571	0.5822	0.5730	0.5855	0.5575
3.8	0.5798		0.5809		0.5827		0.5819		0.5837	
3.9	0.5774	0.5786	0.5785	0.5735	0.5799	0.5575	0.5783	0.5722	0.5818	0.5568
4.0	0.5756		0.5769		0.5789		0.5772		0.5806	
4.1	0.5742	0.5767	0.5755	0.5730	0.5767	0.5682	0.5756	0.5701	0.5800	0.5565
4.3	0.5712	0.5729	0.5725	0.5661	0.5732	0.5509	0.5730	0.5677	0.5776	0.5523
4.4	0.5708		0.5721		0.5728		0.5728		0.5779	
4.5		0.5695		0.5647		0.5498		0.5639		0.5507
4.6	0.5681		0.5698		0.5700		0.5704		0.5757	
4.7	0.5674	0.5676	0.5685	0.5631	0.5693	0.5527	0.5694	0.5621	0.5748	0.5485
4.8	0.5665		0.5676		0.5684		0.5683		0.5740	

4.9	0.5656	0.5665	0.5678	0.5622	0.5673	0.5480	0.5685	0.5609	0.5742	0.5479
5.0	0.5655		0.5675		0.5680		0.5676		0.5727	
5.1	0.5667	0.5660	0.5675	0.5613	0.5685	0.5475	0.5679	0.5610	0.5730	0.5481
5.3	0.5633	0.5636	0.5655	0.5596	0.5658	0.5458	0.5652	0.5590	0.5711	0.5462
5.4	0.5628		0.5646		0.5657		0.5651		0.5711	
5.5	0.5635	0.5628	0.5646	0.5590	0.5657	0.5455	0.5663	0.5585	0.5670	0.5456
5.6										
5.7		0.5611		0.5579		0.5457		0.5579		0.5458
5.8										
5.9	0.5617	0.5644	0.5635	0.5606	0.5635	0.5460	0.5638	0.5598	0.5694	0.5469
6.0	0.5626		0.5646		0.5650		0.5647		0.5709	
6.3	0.5612						0.5637		0.5692	
6.4	0.5623		0.5634		0.5636		0.5638		0.5697	
6.5	0.5610	0.5612	0.5629	0.5569	0.5627	0.5438	0.5633	0.5572	0.5690	0.5452
6.7	0.5630	0.5620	0.5644	0.5580	0.5643	0.5452	0.5651	0.5580	0.5709	0.5453
6.8	0.5623		0.5641		0.5639		0.5649		0.5704	
6.9	0.5624		0.5639		0.5641		0.5647		0.5706	
7.0	0.5608		0.5627		0.5621		0.5631		0.5686	
7.2	0.5630		0.5646		0.5641		0.5653		0.5711	
7.3	0.5612		0.5628		0.5623		0.5638		0.5692	
7.4	0.5615		0.5630		0.5622		0.5636		0.5694	
7.5	0.5610	0.5636	0.5623	0.5588	0.5623	0.5470	0.5629	0.5591	0.5690	0.5482
7.6	0.5615		0.5634		0.5625		0.5638		0.5701	
7.7	0.5619	0.5623	0.5632	0.5589	0.5638	0.5472	0.5640	0.5592	0.5702	0.5473
7.8	0.5615		0.5637		0.5630		0.5642		0.5679	
7.9	0.5615	0.5604	0.5628	0.5569	0.5617	0.5454	0.5640	0.5569	0.5693	0.5455
8.0	0.5622		0.5637		0.5628		0.5645		0.5703	
8.1	0.5619	0.5616	0.5630	0.5579	0.5618	0.5457	0.5628	0.5582	0.5681	0.5463
8.2	0.5623		0.5639		0.5629		0.5649		0.5706	
8.3	0.5620	0.5612	0.5633	0.5578	0.5627	0.5452	0.5643	0.5572	0.5701	0.5461
8.5		0.5630		0.5593		0.5471		0.5596		0.5478
8.6	0.5619		0.5637		0.5630		0.5644		0.5702	
8.8	0.5628	0.5611	0.5641	0.5595	0.5629	0.5476	0.5653	0.5593	0.5709	0.5477
9.0										
9.0	0.5633		0.5650		0.5641		0.5663		0.5722	
9.2	0.5628		0.5644		0.5624		0.5656		0.5706	
9.4	0.5631		0.5644		0.5629		0.5656		0.5713	
9.6	0.5635	0.5634	0.5654	0.5602	0.5645	0.5487	0.5662	0.5602	0.5720	0.5491
9.8	0.5647		0.5662		0.5651		0.5674		0.5737	
10.0	0.5660				0.5675		0.5688		0.5746	
10.2	0.5671		0.5682		0.5682		0.5697		0.5754	
10.4	0.5676	0.5668	0.5691	0.5639	0.5693	0.5529	0.5704	0.5636	0.5764	0.5532
10.6	0.5682		0.5698		0.5698		0.5708		0.5764	
10.8	0.5678		0.5700		0.5694		0.5703		0.5758	
11.0	0.5692		0.5712		0.5710		0.5715		0.5769	
11.2	0.5714	0.5695	0.5734	0.5669	0.5739	0.5575	0.5738	0.5669	0.5795	0.5560
11.4	0.5723		0.5746		0.5757		0.5747		0.5801	
11.6	0.5730		0.5761		0.5771		0.5749		0.5803	

Table II (Continued)
 $M_{\infty} = 0.975$

x/d	P/P_t									
	$\alpha = 0$	$\psi = 0$	$\alpha = 4$	$\psi = 4$	$\alpha = 8$	$\psi = 8$	$\alpha = -4$	$\psi = -4$	$\alpha = -8$	$\psi = -8$
0.4	0.7129	0.7142	0.6858	0.7103	0.6599	0.6885	0.7419	0.7090	0.7710	0.6923
0.4	0.7167	0.7157	0.7455	0.7120	0.7772	0.6910	0.6896	0.7121	0.6631	0.6973
0.7	0.6902		0.6626		0.6357		0.7191		0.7477	
1.0		0.6616		0.6605		0.6403		0.6548		0.6435
1.2	0.6313		0.6095		0.5865		0.6546		0.6783	
1.3	0.6025	0.6035	0.5840	0.6014	0.5641	0.5821	0.6214	0.5996	0.6411	0.5861
1.4		0.7175		0.2185		0.2166		0.2178		0.2174
1.4	0.1901		0.2002		0.2015		0.1899		0.1908	
1.5	0.2330	0.2325	0.2202	0.2310	0.2049	0.2207	0.2496	0.2290	0.2710	0.2240
1.6	0.2642						0.2846		0.3218	
1.7	0.2912	0.2912	0.2656	0.2930	0.2497	0.2903	0.3221	0.2904	0.3619	0.2891
1.8	0.3188		0.2848		0.2720		0.3414		0.3914	
1.9		0.3169		0.3191		0.3184		0.3171		0.3191
2.0	0.3606		0.3364		0.3159		0.3948		0.4324	
2.2	0.4017		0.3831		0.3793		0.4242		0.4535	
2.3	0.4179		0.4061		0.4160		0.4348		0.4596	
2.4	0.4337		0.4309		0.4471		0.4467		0.4658	
2.5	0.4441	0.4431	0.4498	0.4346	0.4663	0.4070	0.4521	0.4348	0.4668	0.4105
2.6	0.4564		0.4675		0.4817		0.4590		0.4707	
2.7	0.4656	0.4641	0.4796	0.4510	0.4916	0.4171	0.4632	0.4552	0.4720	0.4241
2.8	0.4729		0.4878		0.4988		0.4661		0.4722	
2.9	0.4828	0.4806	0.4967	0.4710	0.5059	0.4383	0.4726	0.4723	0.4756	0.4428
3.0	0.4889		0.5024		0.5113		0.4766		0.4770	
3.1	0.4943	0.4941	0.5041	0.4862	0.5059	0.4662	0.4838	0.4878	0.4787	0.4664
3.2	0.5000		0.5097		0.5250		0.4865		0.4798	
3.3		0.5130		0.4958		0.4864		0.4996		0.4797
3.4	0.5208		0.5361		0.5380		0.4989		0.4858	
3.5	0.5367	0.5437	0.5402	0.5059	0.5424	0.5238	0.5135	0.5285	0.4935	0.4936
3.6	0.5437		0.5442		0.5461		0.5367		0.5039	
3.7	0.5507	0.5506	0.5418	0.5229	0.5538	0.5315	0.5489	0.5422	0.5522	0.5193
3.8	0.5534		0.5487		0.5547		0.5538		0.5540	
3.9	0.5547	0.5576	0.5556	0.5420	0.5572	0.5386	0.5552	0.5505	0.5568	0.5331
4.0	0.5570		0.5572		0.5593		0.5581		0.5615	
4.1	0.5586	0.5598	0.5597	0.5650	0.5611	0.5644	0.5592	0.5561	0.5631	0.5435
4.3	0.5604	0.5611	0.5586	0.5479	0.5623	0.5403	0.5612	0.5543	0.5667	0.5396
4.4	0.5617		0.5586		0.5651		0.5628		0.5695	
4.5		0.5621		0.5519		0.5408		0.5569		0.5417
4.6	0.5614		0.5623		0.5635		0.5627		0.5672	
4.7	0.5616	0.5613	0.5619	0.5503	0.5632	0.5432	0.5629	0.5559	0.5676	0.5425
4.8	0.5613		0.5616		0.5629		0.5629		0.5676	

4.9	0.5612	0.5623	0.5614	0.5554	0.5632	0.5406	0.5630	0.5576	0.5677	0.5420
5.0	0.5613		0.5613		0.5624		0.5629		0.5675	
5.1	0.5607	0.5618	0.5610	0.5556	0.5622	0.5406	0.5625	0.5574	0.5670	0.5431
5.3	0.5590	0.5590	0.5609	0.5538	0.5603	0.5374	0.5622	0.5543	0.5672	0.5411
5.4	0.5568		0.5598		0.5598		0.5613		0.5664	
5.5	0.5604	0.5582	0.5648	0.5535	0.5636	0.5364	0.5604	0.5537	0.5634	0.5405
5.6										
5.7		0.5550		0.5500		0.5322		0.5518		0.5375
5.8										
5.9	0.5554	0.5574	0.5576	0.5546	0.5561	0.5361	0.5587	0.5540	0.5641	0.5410
6.0	0.5561		0.5586		0.5570		0.5595		0.5651	
6.3	0.5525						0.5566		0.5625	
6.4	0.5532				0.5541		0.5570		0.5621	
6.5	0.5522	0.5520	0.5543	0.5487	0.5525	0.5311	0.5554	0.5484	0.5611	0.5363
6.7	0.5534	0.5520	0.5556	0.5490	0.5534	0.5319	0.5567	0.5486	0.5629	0.5361
6.8	0.5527		0.5541		0.5529		0.5561		0.5618	
6.9	0.5522		0.5540		0.5525		0.5558		0.5613	
7.0	0.5502		0.5522		0.5499		0.5533		0.5588	
7.2	0.5520		0.5538		0.5515		0.5552		0.5609	
7.3	0.5499		0.5513		0.5491		0.5529		0.5588	
7.4	0.5497		0.5515		0.5486		0.5527		0.5587	
7.5	0.5534	0.5517	0.5511	0.5479	0.5484	0.5314	0.5519	0.5478	0.5577	0.5363
7.6	0.5495		0.5511		0.5483		0.5527		0.5584	
7.7	0.5497	0.5499	0.5511	0.5477	0.5483	0.5326	0.5527	0.5474	0.5587	0.5349
7.8	0.5490		0.5520		0.5493		0.5515		0.5577	
7.9	0.5490	0.5482	0.5501	0.5442	0.5470	0.5294	0.5517	0.5446	0.5575	0.5323
8.0	0.5495		0.5506		0.5479		0.5524		0.5581	
8.1	0.5474	0.5487	0.5501	0.5446	0.5465	0.5298	0.5501	0.5451	0.5574	0.5334
8.2	0.5493		0.5504		0.5476		0.5522		0.5580	
8.3	0.5489	0.5483	0.5496	0.5437	0.5467	0.5298	0.5513	0.5446	0.5569	0.5326
8.5		0.5496		0.5449		0.5309		0.5459		0.5343
8.6	0.5486		0.5506		0.5459		0.5517		0.5575	
8.8	0.5493	0.5493	0.5499	0.5452	0.5467	0.5311	0.5519	0.5448	0.5577	0.5342
9.0										
9.0	0.5497		0.5497		0.5472		0.5524		0.5584	
9.2	0.5488		0.5497		0.5461		0.5511		0.5570	
9.4	0.5489		0.5502		0.5461		0.5515		0.5576	
9.6	0.5497	0.5496	0.5517	0.5453	0.5472	0.5326	0.5526	0.5460	0.5594	0.5345
9.8	0.5509		0.5515		0.5482		0.5540		0.5596	
10.0	0.5525		0.5533		0.5507				0.5610	
10.2	0.5533		0.5545		0.5524		0.5560		0.5622	
10.4	0.5540	0.5533	0.5548	0.5495	0.5529	0.5367	0.5568	0.5500	0.5626	0.5395
10.6	0.5547		0.5556		0.5535		0.5575		0.5630	
10.8	0.5551		0.5560		0.5536		0.5571		0.5630	
11.0	0.5561		0.5576		0.5550		0.5584		0.5640	
11.2	0.5586	0.5576	0.5602	0.5533	0.5583	0.5411	0.5612	0.5537	0.5667	0.5433
11.4	0.5597		0.5620		0.5604		0.5620		0.5677	
11.6	0.5611		0.5636		0.5624		0.5624		0.5679	

Table II (Continued)
 $M_\infty = 1.0$

x/d	P/P _t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.4	0.7109	0.7141	0.6834	0.7055	0.6575	0.6924	0.7393	0.7026	0.7696	0.6900
0.4	0.7147	0.7156	0.7450	0.7070	0.7775	0.6943	0.6855	0.7060	0.6598	0.6957
0.7	0.6888		0.6610		0.6342		0.7164		0.7460	
1.0		0.6618		0.6558		0.6437		0.6502		0.6412
1.2	0.6302		0.6077		0.5850		0.6526		0.6770	
1.3	0.6016	0.6050	0.5830	0.5981	0.5627	0.5867	0.6198	0.5952	0.6402	0.5849
1.4		0.2021		0.2019		0.2028		0.2021		0.2014
1.4	0.1875		0.1991		0.2078		0.1753		0.1733	
1.5	0.2332	0.2366	0.2198	0.2274	0.2081	0.2264	0.2476	0.2244	0.2696	0.2224
1.6	0.2632		0.2461		0.2309		0.2886			
1.7	0.2894	0.2907	0.2646	0.2894	0.2487	0.2931	0.3200	0.2847	0.3592	0.2859
1.8	0.3165		0.2967		0.2746		0.3517		0.3905	
1.9		0.3154		0.3141		0.3201		0.3108		0.3152
2.0	0.3574		0.3331		0.3130		0.3905		0.4279	
2.2	0.3967		0.3783		0.3734		0.4187		0.4484	
2.3	0.4123	0.4116	0.4006	0.4039	0.4077	0.3931	0.4296	0.4016	0.4538	0.3911
2.4	0.4275		0.4236		0.4375		0.4404		0.4601	
2.5	0.4369	0.4375	0.4406	0.4266	0.4561	0.4065	0.4451	0.4253	0.4610	0.4044
2.6	0.4486		0.4573		0.4713		0.4517		0.4645	
2.7	0.4565	0.4558	0.4691	0.4443	0.4807	0.4174	0.4555	0.4417	0.4654	0.4143
2.8	0.4635		0.4767		0.4872		0.4578		0.4658	
2.9	0.4721	0.4708	0.4848	0.4593	0.4936	0.4294	0.4637	0.4599	0.4679	0.4309
3.0	0.4775		0.4895		0.4975		0.4673		0.4702	
3.1	0.4810	0.4815	0.4902	0.4730	0.5023	0.4508	0.4674	0.4731	0.4593	0.4521
3.2	0.4853		0.4944		0.5018		0.4741		0.4716	
3.3		0.4890		0.4813		0.4628		0.4825		0.4640
3.4	0.4923		0.4989		0.5045		0.4836		0.4758	
3.5	0.4946	0.4967	0.4998	0.4890	0.5044	0.4710	0.4878	0.4904	0.4803	0.4734
3.6	0.4962		0.5003		0.5051		0.4913		0.4846	
3.7	0.5008	0.4966	0.5031	0.4894	0.5091	0.4720	0.4972	0.4911	0.4948	0.4736
3.8	0.5017		0.5042		0.5087		0.4993		0.4984	
3.9	0.5026	0.5035	0.5044	0.4966	0.5084	0.4795	0.5019	0.4977	0.5019	0.4806
4.0	0.5038		0.5052		0.5085		0.5035		0.5053	
4.1	0.5047		0.5059		0.5091		0.5049		0.5076	
4.3	0.5063		0.5075		0.5114		0.5065		0.5113	
4.4	0.5080		0.5085		0.5174		0.5077		0.5138	
4.5		0.5074		0.5008		0.4854		0.5033		0.4875
4.6	0.5086		0.5093		0.5119		0.5095		0.5142	
4.7	0.5088	0.5090	0.5102	0.5040	0.5128		0.5097	0.5022	0.5147	0.4875
4.8	0.5093		0.5107		0.5134		0.5104		0.5154	

4.9	0.5103	0.5098	0.5112	0.5041	0.5140	0.4889	0.5109	0.5093	0.5165	0.4892
5.0	0.5102		0.5116		0.5139		0.5122		0.5163	
5.1	0.5115	0.5109	0.5138	0.5052	0.5164	0.4903	0.5142	0.5244	0.5184	0.4917
5.3	0.5113	0.5122	0.5122	0.5060	0.5146	0.4915	0.5146	0.5274	0.5173	0.4907
5.4	0.5121		0.5135		0.5148		0.5296		0.5173	
5.5	0.5244	0.5114	0.5220	0.5087	0.5243	0.4907	0.5246	0.5344	0.5438	0.4921
5.6										
5.7		0.5140		0.5130		0.4967		0.5339		0.4924
5.8										
5.9	0.5293	0.5173	0.5321	0.5336	0.5210	0.4941	0.5415	0.5393	0.5192	0.4966
6.0	0.5308		0.5372		0.5328		0.5390		0.5262	
6.3	0.5414		0.5425				0.5443		0.5209	
6.4	0.5439		0.5444				0.5452		0.5230	
6.5	0.5436	0.5432	0.5437	0.5387	0.5431	0.4958	0.5450	0.5393	0.5239	0.5261
6.7	0.5466	0.5456	0.5464	0.5397	0.5482	0.5090	0.5479	0.5398	0.5472	0.5283
6.8	0.5461		0.5464		0.5488		0.5475		0.5522	
6.9	0.5460		0.5461		0.5489		0.5474		0.5541	
7.0	0.5447		0.5448		0.5470		0.5452		0.5526	
7.2	0.5472		0.5471		0.5500		0.5477		0.5563	
7.3	0.5449		0.5452		0.5477		0.5458		0.5542	
7.4	0.5456		0.5458		0.5482		0.5462		0.5549	
7.5	0.5448	0.5477	0.5448	0.5419	0.5472	0.5328	0.5454	0.5409		0.5318
7.6	0.5447		0.5448		0.5477		0.5456		0.5553	
7.7	0.5452	0.5466	0.5450	0.5411	0.5475	0.5325	0.5455	0.5395	0.5551	0.5318
7.8	0.5450		0.5452		0.5461		0.5463		0.5546	
7.9	0.5442	0.5451	0.5438	0.5384	0.5460	0.5301	0.5442	0.5360	0.5542	0.5291
8.0	0.5444		0.5442		0.5464		0.5448		0.5549	
8.1	0.5440	0.5454	0.5434	0.5382	0.5452	0.5305	0.5436	0.5366	0.5542	0.5298
8.2	0.5441		0.5439		0.5457		0.5443		0.5549	
8.3	0.5432	0.5434	0.5432	0.5368	0.5443	0.5296	0.5438	0.5347	0.5536	0.5283
8.5		0.5459		0.5379		0.5300		0.5358		0.5293
8.6	0.5424		0.5429		0.5433		0.5433		0.5529	
8.8	0.5416	0.5438	0.5416	0.5360	0.5425	0.5294	0.5420	0.5344	0.5528	0.5274
9.0										
9.0	0.5415		0.5413		0.5415		0.5425		0.5518	
9.2	0.5400		0.5399		0.5401		0.5404		0.5507	
9.4	0.5397		0.5397		0.5399		0.5403		0.5502	
9.6	0.5389	0.5399	0.5396	0.5341	0.5406	0.5261	0.5400	0.5331	0.5498	0.5246
9.8	0.5404		0.5408		0.5406		0.5415		0.5508	
10.0					0.5415		0.5419		0.5507	
10.2	0.5413		0.5415		0.5426		0.5431		0.5512	
10.4	0.5414	0.5413	0.5425	0.5363	0.5429	0.5268	0.5436	0.5366	0.5512	0.5269
10.6	0.5422		0.5433		0.5437		0.5443		0.5515	
10.8	0.5428		0.5433		0.5444		0.5439		0.5516	
11.0	0.5449		0.5458		0.5467		0.5457		0.5526	
11.2	0.5476	0.5458	0.5486	0.5419	0.5503	0.5322	0.5485	0.5414	0.5559	0.5326
11.4	0.5495		0.5506		0.5533		0.5499		0.5578	
11.6	0.5512		0.5531		0.5555		0.5506		0.5584	

Table II (Continued)

 $M_\infty = 1.025$

x/d	P/P_1									
	$\alpha = 0$	$\psi = 0$	$\alpha = 4$	$\psi = 4$	$\alpha = 8$	$\psi = 8$	$\alpha = -4$	$\psi = -4$	$\alpha = -8$	$\psi = -8$
0.4	0.7099	0.7145	0.6823	0.6997	0.6567	0.6858	0.7385	0.7054	0.7687	0.6872
0.4	0.7149	0.7151	0.7449	0.7017	0.7783	0.6879	0.6855	0.7075	0.6580	0.6936
0.7	0.6880		0.6600		0.6336		0.7156		0.7445	
1.0		0.6620		0.6506		0.6365		0.6527		0.6389
1.2	0.6295		0.6065		0.5840		0.6520		0.6760	
1.3	0.6009	0.6045	0.5818	0.5931	0.5619	0.5806	0.6191	0.5977	0.6393	0.5830
1.4		0.1873		0.1870		0.1861		0.1877		0.1876
1.4	0.1972		0.2014		0.2085		0.1889		0.1803	
1.5	0.2325	0.2340	0.2186	0.2239	0.2080	0.2201	0.2466	0.2263	0.2680	0.2215
1.6	0.2626		0.2399		0.2296		0.2820		0.3194	
1.7	0.2885	0.2902	0.2632	0.2856	0.2478	0.2877	0.3188	0.2868	0.3580	0.2849
1.8	0.3151		0.2847		0.2710		0.3365		0.3887	
1.9		0.3150		0.3091		0.3134		0.3113		0.3135
2.0	0.3560		0.3315		0.3117		0.3888		0.4262	
2.2	0.3950		0.3759		0.3706		0.4164		0.4460	
2.3	0.4106	0.4104	0.3974	0.3971	0.4039	0.3867	0.4266	0.4013	0.4516	0.3879
2.4	0.4251		0.4201		0.4335		0.4378		0.4574	
2.5	0.4342	0.4360	0.4371	0.4192	0.4521	0.3979	0.4426	0.4242	0.4586	0.4012
2.6	0.4454		0.4532		0.4669		0.4488		0.4621	
2.7	0.4536	0.4539	0.4316	0.4332	0.4766	0.4070	0.4525	0.4417	0.4629	0.4114
2.8	0.4599		0.4716		0.4826		0.4547		0.4624	
2.9	0.4681	0.4683	0.4799	0.4509	0.4891	0.4212	0.4603	0.4553	0.4658	0.4269
3.0	0.4730		0.4843		0.4926		0.4633		0.4671	
3.1	0.4758	0.4790	0.4826	0.4624	0.4828	0.4424	0.4666	0.4679	0.4700	0.4467
3.2	0.4805		0.4920		0.4977		0.4720		0.4679	
3.3		0.4862		0.4705		0.4530		0.4764		0.4604
3.4	0.4872		0.4918		0.4985		0.4766		0.4712	
3.5	0.4881	0.4926	0.4933	0.4776	0.4988	0.4608	0.4813	0.4831	0.4751	0.4674
3.6	0.4891		0.4942		0.4992		0.4850		0.4796	
3.7	0.4938	0.4925	0.4980	0.4772	0.5010	0.4615	0.4919	0.4824	0.4874	0.4668
3.8	0.4938		0.4984		0.5008		0.4925		0.4915	
3.9	0.4944	0.4983	0.4968	0.4836	0.5007	0.4682	0.4936	0.4883	0.4951	0.4732
4.0	0.4949		0.4968		0.5006		0.4952		0.4982	
4.1	0.4956		0.4964		0.5001		0.4954		0.4993	0.4785
4.3	0.4959	0.4982	0.4982	0.4857	0.5005	0.4698	0.4971	0.4892	0.5024	0.4753
4.4	0.4976		0.5044		0.5065		0.4988		0.5040	
4.5		0.4998		0.4875		0.4719		0.4911		0.4772
4.6	0.4970		0.4971		0.5002		0.4976		0.5039	
4.7	0.4968		0.4975		0.5004		0.4980		0.5044	
4.8	0.4969		0.4978		0.5006		0.4981		0.5048	

4.9	0.4971	0.4960	0.4976	0.4904	0.5000	0.4744	0.4978	0.4907	0.5046	0.4773
5.0	0.4984		0.4962		0.4988		0.4980		0.5057	
5.1	0.5002	0.5006	0.4979	0.4919	0.5010	0.4758	0.4998	0.4923	0.5051	0.4784
5.3	0.4978	0.4984	0.4959	0.4904	0.4978	0.4743	0.4983	0.4913	0.5049	0.4772
5.4	0.4974		0.4967		0.4980		0.4979		0.5052	
5.5	0.5161	0.4984	0.5191	0.4912	0.5226	0.4743	0.5100	0.4905	0.5075	0.4767
5.6										
5.7		0.4956		0.4905		0.4733		0.4906		0.4776
5.8										
5.9	0.4961	0.4986	0.4964	0.4949	0.4967	0.4759	0.4967	0.4920	0.5043	0.4785
6.0	0.4968		0.4962		0.4979		0.4978		0.5060	
6.3	0.4941		0.4980		0.4961		0.4953		0.5042	
6.4	0.4955		0.4983		0.4959		0.4958		0.5040	
6.5	0.4942	0.4951	0.4981	0.4903	0.4954	0.4719	0.4953	0.4888	0.5031	0.4753
6.7	0.4956	0.4946	0.5000	0.4917	0.4981	0.4739	0.4970	0.4891	0.5043	0.4749
6.8	0.4952		0.4996		0.4983		0.4970		0.5041	
6.9	0.4949		0.4999		0.4987		0.4975		0.5036	
7.0	0.4929		0.4980		0.4968		0.4957		0.5012	
7.2	0.4944		0.4999		0.4994		0.4981		0.5031	
7.3	0.4922		0.4984		0.4976		0.4964		0.5021	
7.4	0.4921		0.4986		0.4979		0.4973		0.5015	
7.5		0.4932		0.4917		0.4793		0.4955		0.4778
7.6	0.4918		0.4987		0.4979		0.5005		0.5023	
7.7	0.4915	0.4924	0.4989	0.4933	0.4979	0.4796	0.5017	0.4968	0.5030	0.4774
7.8	0.4953		0.4982		0.5172		0.4944		0.5060	
7.9	0.4905	0.4897	0.5010	0.4924	0.4977	0.4791	0.5033	0.4960	0.5021	0.4785
8.0	0.4908		0.5038		0.4984		0.5046		0.5041	
8.1	0.4899	0.4896	0.5082	0.5027	0.4980	0.4836	0.5041	0.4965	0.5023	0.4799
8.2	0.4908		0.5161		0.4994		0.5049		0.5037	
8.3	0.4910	0.4890	0.5245	0.5276	0.4996	0.4830	0.5050	0.4966	0.5030	0.4792
8.5		0.4898		0.5368		0.4854		0.5001		0.4831
8.6	0.4984		0.5105		0.5065		0.5023		0.5085	
8.8	0.5009	0.4994	0.5405	0.5372	0.5192	0.4939	0.5083	0.5163	0.5094	0.4843
9.0										
9.0	0.5059		0.5412		0.5322		0.5292		0.5125	
9.2	0.5150		0.5412		0.5380		0.5452		0.5196	
9.4	0.5292		0.5396		0.5405		0.5482		0.5470	
9.6	0.5414	0.5389	0.5329	0.5345	0.5421	0.5291	0.5463	0.5420	0.5530	0.5323
9.8	0.5484		0.5402		0.5442		0.5499		0.5573	
10.0										
10.2	0.5508		0.5386		0.5441		0.5488		0.5589	
10.4	0.5507	0.5512	0.5381	0.5316	0.5435	0.5273	0.5476	0.5397	0.5580	0.5332
10.6	0.5500		0.5373		0.5427		0.5465		0.5572	
10.8	0.5486		0.5362		0.5410		0.5448		0.5563	
11.0	0.5509		0.5366		0.5406		0.5443		0.5549	
11.2	0.5506	0.5499	0.5388	0.5318	0.5430	0.5269	0.5454	0.5383	0.5568	0.5312
11.4	0.5508		0.5411		0.5450		0.5459		0.5573	
11.6	0.5514		0.5433		0.5467		0.5455		0.5563	

Table II (Continued)
 $M_\infty = 1.05$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.4	0.7064	0.7083	0.6785	0.7001	0.6521	0.6842	0.7354	0.7037	0.7651	0.6825
0.4	0.6549	0.7107	0.7429	0.7026	0.7760	0.6878	0.6814	0.7050	0.6542	0.6876
0.7	0.6841		0.6565		0.6292		0.7128		0.7412	
1.0		0.6577		0.6517		0.6382		0.6508		0.6347
1.2	0.6266		0.6044		0.5809		0.6501		0.6737	
1.3	0.5986	0.6016	0.5804	0.5956	0.5595	0.5827	0.6179	0.5971	0.6378	0.5794
1.4		0.1577		0.1572		0.1579		0.1571		0.1562
1.4	0.1957		0.2039		0.2078		0.1938		0.1861	
1.5	0.2303	0.2317	0.2191	0.2250	0.2065	0.2217	0.2463	0.2263	0.2662	0.2181
1.6	0.2602		0.2415		0.2275		0.2856		0.3165	
1.7	0.2856	0.2865	0.2611	0.2848	0.2457	0.2871	0.3158	0.2843	0.3538	0.2811
1.8	0.3115		0.2889		0.2690		0.3460		0.3841	
1.9		0.3090		0.3073		0.3112		0.3071		0.3056
2.0	0.3509		0.3275		0.3075		0.3836		0.4194	
2.2	0.3879		0.3701		0.3633		0.4104		0.4391	
2.3	0.4029	0.4006	0.3907	0.3942	0.3943	0.3837	0.4207	0.3959	0.4445	0.3797
2.4	0.4172		0.4121		0.4230		0.4310		0.4503	
2.5	0.4259	0.4264	0.4275	0.4163	0.4412	0.3944	0.4351	0.4178	0.4510	0.3927
2.6	0.4361		0.4431		0.4559		0.4417		0.4544	
2.7	0.4112	0.4431	0.4584	0.4305	0.4656	0.4029	0.4109	0.4320	0.4552	0.4017
2.8	0.4490		0.4608		0.4714		0.4468		0.4544	
2.9	0.4578	0.4564	0.4693	0.4446	0.4784	0.4145	0.4523	0.4464	0.4578	0.4142
3.0	0.4623		0.4734		0.4819		0.4556		0.4594	
3.1	0.4649	0.4653	0.4763	0.4560	0.4849	0.4335	0.4512	0.4587	0.4466	0.4332
3.2	0.4694		0.4781		0.4847		0.4606		0.4600	
3.3		0.4725		0.4646		0.4444		0.4661		0.4450
3.4	0.4753		0.4822		0.4886		0.4675		0.4624	
3.5	0.4768	0.4795	0.4831	0.4716	0.4892	0.4529	0.4710	0.4737	0.4650	0.4540
3.6	0.4786		0.4838		0.4893		0.4739		0.4672	
3.7	0.4824	0.4786	0.4873	0.4701	0.4915	0.4541	0.4794	0.4728	0.4750	0.4533
3.8	0.4830		0.4875		0.4912		0.4813		0.4782	
3.9	0.4839	0.4855	0.4872	0.4781	0.4917	0.4611	0.4821	0.4799	0.4810	0.4609
4.0	0.4848		0.4877		0.4916		0.4847		0.4847	
4.1	0.4854		0.4883		0.4915		0.4858		0.4875	
4.3	0.4864	0.4872	0.4891	0.4799	0.4914	0.4641	0.4879	0.4714	0.4915	0.4644
4.4	0.4876		0.4901		0.4922		0.4902		0.4936	
4.5		0.4881		0.4813		0.4668		0.4828		0.4677
4.6	0.4887		0.4902		0.4927		0.4889		0.4952	
4.7	0.4896		0.4900		0.4930		0.4892		0.4953	
4.8	0.4904		0.4906		0.4937		0.4900		0.4960	

4.9	0.4916	0.4891	0.4909	0.4836	0.4943	0.4708	0.4908	0.4840	0.4961	0.4692
5.0	0.4904		0.4914		0.4961		0.4925		0.4953	
5.1	0.4926	0.4914	0.4937	0.4872	0.4980	0.4714	0.4930	0.4862	0.4972	0.4720
5.3	0.4918	0.4915	0.4923	0.4847	0.4959	0.4726	0.4917	0.4876	0.4962	0.4721
5.4	0.4923		0.4930		0.4961		0.4916		0.4972	
5.5	0.5021	0.4935	0.4996	0.4878	0.4974	0.4712	0.5068	0.4887	0.5107	0.4749
5.6										
5.7		0.4923		0.4857		0.4764		0.4875		0.4756
5.8										
5.9	0.4966	0.4996	0.4960	0.4939	0.4981	0.4778	0.4957	0.4946	0.5038	0.4788
6.0	0.4986		0.4991		0.4993		0.5001		0.5050	
6.3	0.4986		0.4983		0.4985		0.5001		0.5050	
6.4	0.4990		0.5013		0.4995		0.5027		0.5076	
6.5	0.4982	0.4963	0.5009	0.4921	0.4980	0.4775	0.5022	0.4961	0.5074	0.4793
6.7	0.4999	0.4978	0.5024	0.4932	0.4981	0.4804	0.5044	0.4950	0.5096	0.4793
6.8	0.5003		0.5016		0.4920		0.5040		0.5089	
6.9	0.5019		0.5016		0.4964		0.5036		0.5087	
7.0	0.5025		0.4998		0.4933		0.5012		0.5061	
7.2	0.5044		0.5003		0.4937		0.5029		0.5077	
7.3	0.5008		0.4972		0.4905		0.5014		0.5051	
7.4	0.5002		0.4967		0.4906		0.5012		0.5044	
7.5	0.4975	0.5017	0.4942	0.4910		0.4789	0.5029	0.4958	0.5042	0.4746
7.6	0.4975		0.4948		0.4892		0.5048		0.5031	
7.7	0.4968	0.4992	0.4934	0.4891	0.4882	0.4753	0.5066	0.4926	0.5027	0.4737
7.8	0.4958		0.4927		0.4877		0.5020		0.5040	
7.9	0.4943	0.4941	0.4908	0.4845	0.4866	0.4713	0.5025	0.4877	0.5035	0.4708
8.0	0.4933		0.4904		0.4866		0.5010		0.5048	
8.1	0.4912	0.4917	0.4890	0.4823	0.4848	0.4704	0.4983	0.4861	0.5025	0.4694
8.2	0.4905		0.4886		0.4851		0.4974		0.5016	
8.3	0.4889	0.4880	0.4873	0.4796	0.4838	0.4673	0.4947	0.4816	0.4993	0.4657
8.5		0.4856		0.4773		0.4669		0.4806		0.4656
8.6	0.4835		0.4838		0.4807		0.4876		0.4957	
8.8	0.4824	0.4815	0.4834	0.4749	0.4800	0.4656	0.4867	0.4770	0.4924	0.4623
9.0										
9.0	0.4793		0.4807		0.4789		0.4829		0.4899	
9.2	0.4772		0.4788		0.4755		0.4793		0.4859	
9.4	0.4750		0.4770		0.4750		0.4777		0.4845	
9.6	0.4747	0.4731	0.4759	0.4678	0.4743	0.4589	0.4766	0.4695	0.4830	0.4561
9.8	0.4748		0.4758		0.4740		0.4759		0.4824	
10.0					0.4757		0.4770		0.4830	
10.2	0.4747		0.4761		0.4765		0.4777		0.4829	
10.4	0.4754	0.4748	0.4766	0.4694	0.4763	0.4568	0.4776	0.4706	0.4830	0.4580
10.6	0.4768		0.4767		0.4770		0.4774		0.4833	
10.8	0.4768		0.4759		0.4764		0.4770		0.4830	
11.0	0.4770		0.4767		0.4748		0.4800		0.4846	
11.2	0.4780	0.4764	0.4781	0.4735	0.4771	0.4591	0.4822	0.4725	0.4893	0.4611
11.4	0.4771		0.4791		0.4769		0.4813		0.4889	
11.6	0.4776		0.4846		0.4763		0.4807		0.4876	

Table II (Continued)
 $M_{\infty}=1.1$

x/d	P/P _t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.4	0.6892	0.6913	0.6607	0.6866	0.6329	0.6649	0.7192	0.6837	0.7520	0.6691
0.4	0.6424	0.6926	0.6199	0.6876	0.7660	0.6690	0.6641	0.6867	0.6344	0.6734
0.7	0.6693		0.6410		0.6131		0.6991		0.7296	
1.0		0.6458		0.6414		0.6215		0.6400		0.6255
1.2	0.6174		0.5950		0.5705		0.6415		0.6658	
1.3	0.5916	0.5937	0.5729	0.5890	0.5515	0.5703	0.6114	0.5882	0.6314	0.5746
1.4	0.1856		0.1809		0.1757		0.1906		0.1962	
1.4	0.1944		0.2003		0.2092		0.1930		0.1839	
1.5	0.2263	0.2268	0.2144	0.2229	0.2055	0.2138	0.2418	0.2214	0.2599	0.2157
1.6	0.2540		0.2338		0.2249		0.2772		0.3051	
1.7	0.2769	0.2750	0.2554	0.2738	0.2411	0.2713	0.3050	0.2781	0.3409	0.2765
1.8	0.2998		0.2738		0.2608		0.3326		0.3649	
1.9		0.2953		0.2961		0.2939		0.2927		0.2928
2.0	0.3349		0.3141		0.2950		0.3655		0.4007	
2.2	0.3666		0.3513		0.3412		0.3892		0.4185	
2.3	0.3810	0.3786	0.3687	0.3751	0.3674	0.3620	0.3988	0.3742	0.4232	0.3609
2.4	0.3941		0.3886		0.3915		0.4081		0.4297	
2.5	0.4019	0.4012	0.4022	0.3945	0.4085	0.3716	0.4121	0.3936	0.4306	0.3732
2.6	0.4115		0.4170		0.4233		0.4181		0.4345	
2.7	0.4186	0.4164	0.4275	0.4054	0.4339	0.3770	0.4214	0.4068	0.4346	0.3836
2.8	0.4233		0.4345		0.4406		0.4230		0.4346	
2.9	0.4323	0.4286	0.4435	0.4197	0.4483	0.3869	0.4286	0.4189	0.4379	0.3890
3.0	0.4374		0.4488		0.4526		0.4324		0.4409	
3.1	0.4482	0.4379	0.4625	0.4307	0.4657	0.4027	0.4308	0.4302	0.4389	0.4029
3.2	0.4455		0.4497		0.4507		0.4364		0.4393	
3.3		0.4456		0.4384		0.4140		0.4384		0.4157
3.4	0.4507		0.4593		0.4633		0.4420		0.4429	
3.5	0.4527	0.4529	0.4601	0.4461	0.4646	0.4238	0.4459	0.4464	0.4438	0.4265
3.6	0.4533		0.4605		0.4644		0.4486		0.4448	
3.7	0.4570	0.4525	0.4595	0.4466	0.4655	0.4258	0.4535	0.4452	0.4501	0.4270
3.8	0.4575		0.4606		0.4661		0.4551		0.4510	
3.9	0.4584	0.4588	0.4630	0.4548	0.4659	0.4333	0.4559	0.4520	0.4543	0.4350
4.0	0.4596		0.4632		0.4659		0.4581		0.4580	
4.1	0.4607		0.4632		0.4663		0.4596		0.4607	
4.3	0.4613	0.4613	0.4618	0.4554	0.4660	0.4343	0.4611	0.4376	0.4641	0.4404
4.4	0.4614		0.4596		0.4607		0.4632		0.4653	
4.5		0.4632		0.4570		0.4370		0.4593		0.4437
4.6	0.4613		0.4641		0.4652		0.4630		0.4698	
4.7	0.4620		0.4648		0.4651		0.4641		0.4709	
4.8	0.4626		0.4653		0.4653		0.4649		0.4721	

4.9	0.4631	0.4558	0.4654	0.4577	0.4658	0.4386	0.4657	0.4586	0.4723	0.4444
5.0	0.4644		0.4655		0.4655		0.4658		0.4749	
5.1	0.4650	0.4637	0.4684	0.4589	0.4674	0.4421	0.4670	0.4585	0.4769	0.4468
5.3	0.4656	0.4633	0.4683	0.4608	0.4676	0.4414	0.4674	0.4577	0.4760	0.4470
5.4	0.4670		0.4689		0.4684		0.4684		0.4760	
5.5	0.4771	0.4662	0.4790	0.4616	0.4791	0.4457	0.4851	0.4619	0.4835	0.4458
5.6										
5.7		0.4684		0.4618		0.4426		0.4626		0.4474
5.8										
5.9	0.4679	0.4743	0.4688	0.4678	0.4687	0.4500	0.4700	0.4671	0.4775	0.4494
6.0	0.4689		0.4694		0.4697		0.4714		0.4788	
6.3	0.4658		0.4671		0.4675		0.4673		0.4780	
6.4	0.4659		0.4680		0.4679		0.4673		0.4771	
6.5	0.4652	0.4650	0.4675	0.4625	0.4677	0.4445	0.4666	0.4608	0.4758	0.4532
6.7	0.4659	0.4647	0.4680	0.4607	0.4695	0.4430	0.4677	0.4609	0.4762	0.4511
6.8	0.4652		0.4671		0.4696		0.4675		0.4758	
6.9	0.4646		0.4670		0.4700		0.4680		0.4758	
7.0	0.4623		0.4653		0.4670		0.4656		0.4734	
7.2	0.4641		0.4668		0.4675		0.4668		0.4758	
7.3	0.4630		0.4650		0.4652		0.4651		0.4742	
7.4	0.4640		0.4650		0.4646		0.4639		0.4740	
7.5	0.4641	0.4655	0.4646	0.4620		0.4454		0.4592	0.4725	0.4497
7.6			0.4653		0.4643		0.4642		0.4742	
7.7	0.4642	0.4659	0.4656	0.4624	0.4638	0.4451	0.4644	0.4588	0.4733	0.4488
7.8	0.4639		0.4624		0.4587		0.4662		0.4697	
7.9	0.4641	0.4641	0.4656	0.4606	0.4628	0.4442	0.4645	0.4581	0.4710	0.4471
8.0	0.4651		0.4672		0.4642		0.4661		0.4721	
8.1	0.4646	0.4678	0.4669	0.4632	0.4634	0.4463	0.4662	0.4629	0.4710	0.4468
8.2	0.4660		0.4684		0.4651		0.4686		0.4731	
8.3	0.4662	0.4679	0.4689	0.4636	0.4646	0.4489	0.4701	0.4647	0.4735	0.4469
8.5		0.4697		0.4651		0.4511		0.4669		0.4528
8.6	0.4698		0.4690		0.4641		0.4710		0.4791	
8.8	0.4739	0.4686	0.4734	0.4672	0.4692	0.4512	0.4774	0.4677	0.4861	0.4571
9.0										
9.0	0.4728		0.4714		0.4686		0.4774		0.4847	
9.2	0.4707		0.4713		0.4673		0.4739		0.4845	
9.4	0.4699		0.4708		0.4671		0.4722		0.4816	
9.6	0.4702	0.4693	0.4691	0.4663	0.4662	0.4506	0.4707	0.4626	0.4797	0.4556
9.8	0.4704		0.4716		0.4679		0.4689		0.4794	
10.0	0.4701		0.4720		0.4698				0.4780	
10.2	0.4691		0.4715		0.4707		0.4693		0.4780	
10.4	0.4677	0.4666	0.4696	0.4630	0.4691	0.4464	0.4688	0.4608	0.4780	0.4535
10.6	0.4661		0.4680		0.4672		0.4677		0.4767	
10.8	0.4642		0.4663		0.4645		0.4674		0.4753	
11.0	0.4632		0.4651		0.4653		0.4659		0.4766	
11.2	0.4657	0.4653	0.4674	0.4618	0.4662	0.4527	0.4682	0.4609	0.4766	0.4512
11.4	0.4666		0.4687		0.4655		0.4689		0.4760	
11.6	0.4660		0.4701		0.4624		0.4693		0.4753	

Table II (Continued);
 $M_{\infty} = 1.15$

x/d	P/P_t									
	$\alpha = 0$	$\psi = 0$	$\alpha = 4$	$\psi = 4$	$\alpha = 8$	$\psi = 8$	$\alpha = -4$	$\psi = -4$	$\alpha = -8$	$\psi = -8$
0.4	0.6672	0.6688	0.6382	0.6637	0.6098	0.6442	0.6992	0.6638	0.7336	0.6457
0.4	0.6289	0.6704	0.7087	0.6649	0.7484	0.6471	0.6384	0.6660	0.6124	0.6504
0.7	0.6529		0.6241		0.5950					
1.0		0.6329		0.6273		0.6085		0.6289		0.6089
1.2	0.6076		0.5841		0.5586		0.6320		0.6575	
1.3	0.5843	0.5856	0.5636	0.5801	0.5423	0.5633	0.6043	0.5816	0.6254	0.5636
1.4	0.1833		0.1796		0.1735		0.1775		0.1951	
1.4	0.1928		0.1991		0.2065		0.1895		0.1838	
1.5	0.2222	0.2224	0.2118	0.2178	0.2022	0.2108	0.2376	0.2194	0.2551	0.2105
1.6	0.2473		0.2365		0.2224		0.2769		0.2977	
1.7	0.2683	0.2674	0.2493	0.2680	0.2352	0.2680	0.2956	0.2685	0.3285	0.2679
1.8	0.2892		0.2775		0.2590		0.3301		0.3554	
1.9		0.2817		0.2818		0.2793		0.2814		0.2775
2.0	0.3207		0.3004		0.2832		0.3488		0.3824	
2.2	0.3476		0.3334		0.3222		0.3719		0.3988	
2.3	0.3602	0.3586	0.3493	0.3538	0.3439	0.3435	0.3812	0.3544	0.4035	0.3421
2.4	0.3718		0.3651		0.3653		0.3874		0.4085	
2.5	0.3779	0.3785	0.3758	0.3704	0.3807	0.3531	0.3904	0.3708	0.4088	0.3525
2.6	0.3857		0.3884		0.3949		0.3962		0.4121	
2.7	0.3908	0.3904	0.3968	0.3828	0.4048	0.3609	0.3988	0.3790	0.4125	0.3589
2.8	0.3942		0.4020		0.4110		0.4002		0.4117	
2.9	0.4013	0.3993	0.4097	0.3913	0.4185	0.3628	0.4041	0.3916	0.4138	0.3630
3.0	0.4063		0.4145		0.4228		0.4075		0.4167	
3.1		0.4071		0.3993		0.3697		0.3996		0.3729
3.2	0.4133		0.4159		0.4195		0.4116		0.4174	
3.3		0.4139		0.4048		0.3778		0.4062		0.3813
3.4	0.4183		0.4257		0.4304		0.4119		0.4172	
3.5	0.4195	0.4222	0.4283	0.4130	0.4310	0.3867	0.4140	0.4128	0.4184	0.3915
3.6	0.4210		0.4298		0.4311		0.4144		0.4183	
3.7	0.4249	0.4213	0.4295	0.4171	0.4344	0.3899	0.4206	0.4113	0.4235	0.3931
3.8	0.4263		0.4332		0.4361		0.4217		0.4225	
3.9	0.4277	0.4328	0.4344	0.4269	0.4357	0.4020	0.4230	0.4184	0.4216	0.4041
4.0	0.4304		0.4346		0.4367		0.4263		0.4238	
4.1	0.4326		0.4346		0.4369		0.4274		0.4247	
4.3	0.4336	0.4364	0.4359	0.4303	0.4400	0.4056	0.4318	0.4282	0.4299	0.4092
4.4	0.4335		0.4354		0.4360		0.4345		0.4392	
4.5		0.4416		0.4355		0.4111		0.4295		0.4145
4.6	0.4354		0.4390		0.4403		0.4362		0.4402	
4.7	0.4360		0.4418		0.4417		0.4368		0.4436	
4.8	0.4366		0.4430		0.4424		0.4371		0.4443	

4.9	0.4374	0.4406	0.4448	0.4366	0.4439	0.4218	0.4381	0.4350	0.4445	0.4244
5.0	0.4392		0.4380		0.4421		0.4365		0.4445	
5.1	0.4417	0.4408	0.4422	0.4372	0.4461	0.4224	0.4368	0.4367	0.4461	0.4241
5.3	0.4423	0.4410	0.4422	0.4351	0.4467	0.4195	0.4383	0.4352	0.4497	0.4210
5.4	0.4436		0.4421		0.4470		0.4410		0.4507	
5.5		0.4407		0.4384		0.4195		0.4338		0.4221
5.6										
5.7		0.4404		0.4345		0.4214		0.4340		0.4223
5.8	0.4462		0.4463		0.4467		0.4428		0.4524	
5.9	0.4478	0.4452	0.4465	0.4426	0.4463	0.4242	0.4420	0.4365	0.4508	0.4257
6.0	0.4497		0.4487		0.4480		0.4446		0.4526	
6.3	0.4469		0.4452		0.4458		0.4448		0.4535	
6.4	0.4456		0.4474		0.4458		0.4456		0.4546	
6.5	0.4427	0.4432	0.4471	0.4346	0.4447	0.4172	0.4466	0.4399	0.4551	0.4195
6.7	0.4398	0.4388	0.4480	0.4336	0.4458	0.4178	0.4516	0.4391	0.4581	0.4182
6.8	0.4374		0.4454		0.4450		0.4507		0.4570	
6.9	0.4355		0.4439		0.4450		0.4502		0.4559	
7.0	0.4318		0.4402		0.4419		0.4459		0.4528	
7.2	0.4323		0.4403		0.4439		0.4448		0.4537	
7.3	0.4306		0.4379		0.4384		0.4428		0.4500	
7.4	0.4317		0.4380		0.4394		0.4396		0.4476	
7.5		0.4336	0.4375	0.4291	0.4380	0.4192	0.4404	0.4295	0.4445	0.4174
7.6	0.4329		0.4384		0.4382		0.4378		0.4441	
7.7	0.4329	0.4318	0.4376	0.4288	0.4374	0.4175	0.4355	0.4302	0.4422	0.4171
7.8	0.4333		0.4365		0.4365		0.4415		0.4511	
7.9	0.4326	0.4341	0.4371	0.4304	0.4378	0.4130	0.4315	0.4289	0.4383	0.4126
8.0	0.4337		0.4372		0.4385		0.4322		0.4384	
8.1	0.4344	0.4362	0.4364	0.4322	0.4369	0.4132	0.4307	0.4295	0.4368	0.4142
8.2	0.4362		0.4369		0.4368		0.4324		0.4382	
8.3	0.4366	0.4350	0.4365	0.4327	0.4350	0.4129	0.4335	0.4276	0.4384	0.4138
8.5		0.4368		0.4348		0.4159		0.4279		0.4182
8.6	0.4381		0.4389		0.4365		0.4373		0.4456	
8.8	0.4378	0.4382	0.4349	0.4314	0.4347	0.4163	0.4370	0.4295	0.4482	0.4197
9.0										
9.0	0.4357		0.4370		0.4346		0.4371		0.4482	
9.2	0.4358		0.4372		0.4332		0.4374		0.4474	
9.4	0.4376		0.4400		0.4364		0.4357		0.4497	
9.6	0.4389	0.4392	0.4412	0.4347	0.4379	0.4202	0.4377	0.4312	0.4489	0.4208
9.8	0.4408		0.4401		0.4364		0.4409		0.4476	
10.0	0.4417		0.4417		0.4428		0.4433		0.4474	
10.2	0.4442		0.4450		0.4428		0.4424		0.4495	
10.4	0.4446	0.4416	0.4449	0.4379	0.4401	0.4252	0.4448	0.4394	0.4535	0.4233
10.6	0.4437		0.4437		0.4379		0.4457		0.4538	
10.8	0.4423		0.4428		0.4359		0.4468		0.4543	
11.0	0.4406		0.4414		0.4391		0.4474		0.4518	
11.2	0.4407	0.4427	0.4446	0.4377	0.4411	0.4231	0.4483	0.4372	0.4552	0.4306
11.4	0.4419		0.4439		0.4406		0.4465		0.4583	
11.6	0.4445		0.4435		0.4400		0.4426		0.4541	

Table II (Continued)

 $M_{\infty}=1.2$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.4	0.6360	0.6367	0.6061	0.6309	0.5780	0.6169	0.6704	0.6320	0.7058	0.6173
0.4	0.6424	0.6411	0.6790	0.6343	0.7210	0.6197	0.6113	0.6362	0.5815	0.6226
0.7	0.6308		0.6016		0.5723		0.6635			
1.0		0.6160		0.6102		0.5922		0.6109		0.5913
1.2	0.5959		0.5698		0.5435		0.6212		0.6463	
1.3	0.5760	0.5764	0.5536	0.5705	0.5303	0.5540	0.5965	0.5711	0.6172	0.5539
1.4	0.1822		0.1763		0.1714		0.1861		0.1918	
1.4	0.1947		0.1973		0.2024		0.1881		0.1826	
1.5	0.2189	0.2169	0.2059	0.2147	0.1985	0.2074	0.2306	0.2142	0.2475	0.2054
1.6	0.2414		0.2239		0.2155		0.2533		0.2804	
1.7	0.2594	0.2645	0.2417	0.2708	0.2292	0.2704	0.2822	0.2648	0.3144	0.2622
1.8	0.2781		0.2545		0.2448		0.2916		0.3261	
1.9		0.2675		0.2691		0.2656		0.2684		0.2636
2.0	0.3052		0.2861		0.2705		0.3326		0.3645	
2.2	0.3285		0.3132		0.3026		0.3517		0.3791	
2.3	0.3389	0.3367	0.3257	0.3352	0.3203	0.3244	0.3566	0.3342	0.3823	0.3258
2.4	0.3492		0.3399		0.3405		0.3665		0.3876	
2.5	0.3546	0.3533	0.3489	0.3498	0.3541	0.3346	0.3690	0.3499	0.3894	0.3334
2.6	0.3626		0.3593		0.3679		0.3734		0.3927	
2.7	0.3669	0.3639	0.3668	0.3573	0.3763	0.3375	0.3747	0.3610		0.3420
2.8	0.3695		0.3717		0.3814		0.3745		0.3913	
2.9	0.3747	0.3746	0.3797	0.3667	0.3882	0.3405	0.3778	0.3670	0.3926	0.3413
3.0	0.3787		0.3851		0.3920		0.3811		0.3949	
3.1	0.3774	0.3863	0.3802	0.3754	0.3838	0.3444	0.3796	0.3762	0.3913	0.3486
3.2										
3.3		0.3914		0.3809		0.3551		0.3819		0.3581
3.4	0.3918		0.3990		0.4028		0.3886		0.3902	
3.5	0.3941	0.3946	0.3999	0.3873	0.4045	0.3632	0.3915	0.3880	0.3906	0.3637
3.6	0.3953		0.4003		0.4057		0.3933		0.3907	
3.7	0.4003	0.3909	0.4057	0.3878	0.4089	0.3631	0.3989	0.3869	0.3970	0.3633
3.8	0.4009		0.4038		0.4091		0.3989		0.3962	
3.9	0.4017	0.3994	0.4043	0.3949	0.4101	0.3726	0.3986	0.3945	0.3959	0.3720
4.0	0.4026		0.4046		0.4099		0.3991		0.3981	
4.1	0.4032		0.4056		0.4096		0.3989		0.4003	
4.3	0.4021	0.4028	0.4064	0.3959	0.4087	0.3764	0.4008	0.3952	0.4024	0.3777
4.4										
4.5		0.4022		0.3964		0.3814		0.3980		0.3824
4.6	0.4031		0.4086		0.4104		0.4051		0.4062	
4.7	0.4031		0.4086		0.4122		0.4051		0.4071	
4.8	0.4039		0.4089		0.4125		0.4057		0.4081	

4.9	0.4068	0.4044	0.4093	0.4007	0.4130	0.3836	0.4062	0.4020	0.4084	0.3836
5.0	0.4084		0.4100		0.4123		0.4069		0.4107	
5.1	0.4105	0.4070	0.4123	0.4021	0.4147	0.3837	0.4089	0.4041	0.4138	0.3858
5.3	0.4076	0.4068	0.4117	0.4007	0.4119	0.3851	0.4092	0.4005	0.4161	0.3845
5.4	0.4079		0.4125		0.4124		0.4093		0.4165	
5.5		0.4099		0.4046		0.3862		0.4005		0.3865
5.6										
5.7		0.4084		0.4054		0.3897		0.4044		0.3894
5.8	0.4123		0.4137		0.4190		0.4158		0.4174	
5.9	0.4126	0.4113	0.4133	0.4094	0.4179	0.3915	0.4144	0.4103	0.4168	0.3912
6.0	0.4140		0.4145		0.4185		0.4160		0.4183	
6.3	0.4096		0.4123		0.4146		0.4149		0.4240	
6.4	0.4084		0.4129		0.4159		0.4138		0.4237	
6.5	0.4081	0.4122	0.4119	0.4067	0.4142	0.3923	0.4132	0.4059	0.4202	0.3922
6.7	0.4125	0.4147	0.4139	0.4092	0.4159	0.3948	0.4137	0.4096	0.4203	0.3912
6.8	0.4130		0.4139		0.4162		0.4130		0.4200	
6.9	0.4135		0.4148		0.4179		0.4143		0.4205	
7.0	0.4117		0.4139		0.4168		0.4132		0.4179	
7.2	0.4143		0.4178		0.4194		0.4187		0.4237	
7.3	0.4136		0.4175		0.4164		0.4182		0.4252	
7.4	0.4143		0.4174		0.4158		0.4182		0.4245	
7.5	0.4140	0.4127	0.4162	0.4097	0.4147	0.3929	0.4180	0.4101	0.4220	0.3951
7.6	0.4143		0.4163		0.4157		0.4191		0.4250	
7.7	0.4153	0.4117	0.4153	0.4101	0.4144	0.3950	0.4199	0.4091	0.4248	0.3936
7.8	0.4152		0.4191		0.4194		0.4171		0.4185	
7.9	0.4152	0.4099	0.4130	0.4072	0.4123	0.3939	0.4185	0.4073	0.4241	0.3928
8.0	0.4137		0.4126		0.4139		0.4180		0.4245	
8.1	0.4134	0.4129	0.4121	0.4065	0.4129	0.3911	0.4163	0.4083	0.4231	0.3959
8.2	0.4127		0.4127		0.4135		0.4169		0.4242	
8.3	0.4110	0.4141	0.4132	0.4067	0.4123	0.3907	0.4166	0.4082	0.4228	0.3942
8.5		0.4127		0.4066		0.3946		0.4109		0.3951
8.6	0.4097		0.4147		0.4158		0.4147		0.4196	
8.8	0.4109	0.4093	0.4142	0.4056	0.4120	0.3948	0.4158	0.4046	0.4235	0.3953
9.0										
9.0	0.4116		0.4136		0.4101		0.4126		0.4244	
9.2	0.4100		0.4128		0.4097		0.4113		0.4196	
9.4	0.4107		0.4137		0.4113		0.4140		0.4170	
9.6	0.4111	0.4125	0.4140	0.4093	0.4106	0.3958	0.4131	0.4074	0.4148	0.3908
9.8	0.4131		0.4140		0.4100		0.4151		0.4183	
10.0	0.4145		0.4131		0.4106		0.4180		0.4215	
10.2	0.4130		0.4109		0.4090		0.4195		0.4250	
10.4	0.4092	0.4069	0.4097	0.4044	0.4089	0.3931	0.4169	0.4037	0.4253	0.3928
10.6	0.4065		0.4097		0.4098		0.4142		0.4220	
10.8	0.4040		0.4103		0.4059		0.4105		0.4185	
11.0	0.4060		0.4094		0.4047		0.4069		0.4183	
11.2	0.4102	0.4075	0.4130	0.4059	0.4086	0.3886	0.4068	0.4041	0.4174	0.3935
11.4	0.4111		0.4122		0.4088		0.4096		0.4161	
11.6	0.4113		0.4117		0.4078		0.4150		0.4142	

Table II (Continued)
 $M_{\infty}=1.3$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.4	0.5448	0.5471	0.5178	0.5615	0.5021	0.5499	0.5823	0.5573	0.6207	0.5428
0.4	0.5484	0.5461	0.5918	0.5553	0.5560	0.5436	0.5169	0.5547	0.5002	0.5442
0.7	0.5559		0.5263		0.4957					
1.0		0.5661		0.5596		0.5406		0.5564		0.5369
1.2	0.5578		0.5268		0.4981		0.5843		0.6112	
1.3	0.5485	0.5482	0.5211	0.5395	0.4942	0.5203	0.5710	0.5415	0.5929	0.5209
1.4	0.1766		0.1711		0.1655		0.1818		0.1868	
1.4	0.1885		0.1926		0.1984		0.1814		0.1758	
1.5	0.2073	0.2058	0.1978	0.2010	0.1911	0.1925	0.2180	0.2018	0.2317	0.1920
1.6	0.2267		0.2163		0.2087		0.2457		0.2617	
1.7	0.2394	0.2362	0.2256	0.2361	0.2168	0.2357	0.2587	0.2365	0.2819	0.2369
1.8	0.2566		0.2429		0.2328		0.2824		0.3010	
1.9		0.2402		0.2372		0.2312		0.2371		0.2305
2.0	0.2728		0.2579		0.2470		0.2958		0.3214	
2.2	0.2883		0.2766		0.2691		0.3095		0.3342	
2.3	0.2956	0.2962	0.2851	0.2920	0.2797	0.2809	0.3156	0.2929	0.3387	0.2803
2.4	0.3025		0.2933		0.2905		0.3188		0.3415	
2.5	0.3071	0.3076	0.3005	0.3033	0.2993	0.2899	0.3217	0.3046	0.3441	0.2911
2.6	0.3131		0.3086		0.3099		0.3264		0.3470	
2.7	0.3178	0.3156	0.3149	0.3116	0.3201	0.2978	0.3284	0.3102	0.3464	0.2950
2.8	0.3229		0.3216		0.3280		0.3297		0.3455	
2.9	0.3299	0.3244	0.3316	0.3179	0.3362	0.2961	0.3336	0.3200	0.3478	0.2976
3.0	0.3344		0.3373		0.3413		0.3384		0.3511	
3.1		0.3295		0.3238		0.2964		0.3227		0.3005
3.2	0.3421		0.3409		0.3417		0.3479		0.3532	
3.3		0.3355		0.3288		0.3021		0.3245		0.2993
3.4	0.3441		0.3472		0.3507		0.3438		0.3498	
3.5	0.3453	0.3425	0.3519	0.3312	0.3531	0.3064	0.3461	0.3315	0.3512	0.3052
3.6	0.3467		0.3525		0.3553		0.3465		0.3518	
3.7	0.3507	0.3419	0.3520	0.3308	0.3553	0.3073	0.3522	0.3319	0.3564	0.3067
3.8	0.3513		0.3525		0.3566		0.3490		0.3543	
3.9	0.3501	0.3491	0.3512	0.3406	0.3566	0.3149	0.3487	0.3412	0.3527	0.3204
4.0	0.3490		0.3515		0.3571		0.3514		0.3528	
4.1	0.3490		0.3519		0.3573		0.3525		0.3514	
4.3	0.3523	0.3561	0.3534	0.3488	0.3595	0.3253	0.3509	0.3465	0.3527	0.3252
4.4	0.3547		0.3534		0.3542		0.3583		0.3619	
4.5		0.3553		0.3485		0.3285		0.3505		0.3284
4.6	0.3527		0.3543		0.3584		0.3529		0.3531	
4.7	0.3526		0.3548		0.3598		0.3517		0.3538	
4.8	0.3534		0.3554		0.3599		0.3515		0.3567	

4.9	0.3544	0.3596	0.3569	0.3505	0.3604	0.3371	0.3539	0.3569	0.3599	0.3384
5.0	0.3558		0.3585		0.3597		0.3580		0.3591	
5.1	0.3572	0.3575	0.3601	0.3499	0.3607	0.3395	0.3598	0.3540	0.3598	0.3418
5.3	0.3545	0.3532	0.3561	0.3485	0.3592	0.3347	0.3574	0.3508	0.3619	0.3384
5.4	0.3555		0.3562		0.3607		0.3575		0.3637	
5.5		0.3524		0.3483		0.3318		0.3489		0.3362
5.6										
5.7		0.3494		0.3468		0.3327		0.3456		0.3315
5.8	0.3547		0.3517		0.3579		0.3548		0.3715	
5.9	0.3526	0.3543	0.3507	0.3463	0.3564	0.3298	0.3530	0.3472	0.3687	0.3313
6.0	0.3525		0.3514		0.3566		0.3540		0.3667	
6.3	0.3495		0.3541		0.3534		0.3540		0.3586	
6.4	0.3514		0.3553		0.3546		0.3555		0.3602	
6.5	0.3533	0.3552	0.3551	0.3508	0.3550	0.3365	0.3559	0.3509	0.3596	0.3364
6.7	0.3588	0.3550	0.3569	0.3522	0.3599	0.3350	0.3619	0.3517	0.3578	0.3368
6.8	0.3597		0.3565		0.3621		0.3619		0.3589	
6.9	0.3600		0.3566		0.3649		0.3612		0.3647	
7.0	0.3574		0.3549		0.3613		0.3571		0.3657	
7.2	0.3560		0.3587		0.3596		0.3584		0.3710	
7.3	0.3556		0.3592		0.3574		0.3587		0.3690	
7.4	0.3560		0.3588		0.3561		0.3610		0.3671	
7.5		0.3601		0.3492	0.3571	0.3374	0.3596	0.3533	0.3664	0.3394
7.6	0.3547		0.3565		0.3588		0.3592		0.3664	
7.7	0.3534	0.3561	0.3552	0.3507	0.3589	0.3355	0.3577	0.3545	0.3655	0.3386
7.8	0.3599		0.3551		0.3570		0.3646		0.3715	
7.9	0.3584	0.3520	0.3561	0.3508	0.3595	0.3357	0.3569	0.3514	0.3637	0.3377
8.0	0.3594		0.3573		0.3593		0.3584		0.3654	
8.1	0.3581	0.3559	0.3581	0.3503	0.3564	0.3332	0.3575	0.3515	0.3664	0.3393
8.2	0.3578		0.3598		0.3554		0.3581		0.3687	
8.3	0.3568	0.3569	0.3614	0.3500	0.3552	0.3342	0.3589	0.3499	0.3680	0.3389
8.5		0.3581		0.3542		0.3414		0.3524		0.3405
8.6	0.3631		0.3622		0.3615		0.3641		0.3678	
8.8	0.3677	0.3589	0.3626	0.3549	0.3649	0.3454	0.3664	0.3580	0.3678	0.3412
9.0										
9.0	0.3649		0.3613		0.3653		0.3677		0.3678	
9.2	0.3593		0.3586		0.3593		0.3682		0.3782	
9.4	0.3576		0.3582		0.3587		0.3660		0.3755	
9.6	0.3577	0.3633	0.3595	0.3597	0.3574	0.3469	0.3623	0.3614	0.3727	0.3428
9.8	0.3621		0.3620		0.3596		0.3606		0.3745	
10.0	0.3656				0.3634		0.3648		0.3725	
10.2	0.3638		0.3674		0.3636		0.3707		0.3707	
10.4	0.3637	0.3616	0.3677	0.3556	0.3623	0.3437	0.3709	0.3563	0.3735	0.3442
10.6	0.3675		0.3657		0.3611		0.3678		0.3734	
10.8	0.3674		0.3627		0.3598		0.3642		0.3768	
11.0	0.3649		0.3618		0.3579		0.3675		0.3745	
11.2	0.3631	0.3636	0.3615	0.3573	0.3615	0.3434	0.3716	0.3579	0.3749	0.3446
11.4	0.3615		0.3633		0.3615		0.3691		0.3719	
11.6	0.3606		0.3625		0.3597		0.3659		0.3750	

Table II (Continued)
 $M_{\infty}=1.4$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.4	0.5028	0.5087	0.4631	0.5012	0.4376	0.4834	0.5384	0.5058	0.5776	0.4859
0.4	0.4919	0.5068	0.4814	0.4972	0.5758	0.4854	0.4823	0.5070	0.4932	0.4928
0.7	0.4999		0.4615		0.4335		0.5455		0.5865	
1.0		0.4949		0.4937		0.4844		0.4960		0.4863
1.2	0.4905		0.4639		0.4381		0.5288		0.5751	
1.3	0.4880	0.4914	0.4630	0.4865	0.4346	0.4784	0.5256	0.4861	0.5637	0.4785
1.4	0.1607		0.1535		0.1453		0.1689		0.1769	
1.4	0.1739		0.1855		0.1935		0.1689		0.1600	
1.5	0.1873	0.1908	0.1786	0.1855	0.1698	0.1772	0.1994	0.1836	0.2159	0.1782
1.6	0.2012		0.1877		0.1826		0.2095		0.2299	
1.7	0.2115		0.2017		0.1916		0.2265		0.2529	
1.8	0.2217		0.2077		0.2038		0.2295		0.2540	
1.9										
2.0	0.2370		0.2288		0.2199		0.2520		0.2815	
2.2	0.2525		0.2428		0.2362		0.2626		0.2878	
2.3	0.2598	0.2576	0.2502	0.2556	0.2435	0.2405	0.2657	0.2539	0.2879	0.2411
2.4	0.2666		0.2594		0.2525		0.2735		0.2941	
2.5	0.2716	0.2701	0.2642	0.2651	0.2600	0.2488	0.2785	0.2635	0.2953	0.2460
2.6	0.2783		0.2706		0.2692		0.2833		0.2988	
2.7	0.2811	0.2805	0.2749	0.2646	0.2749	0.2528	0.2710	0.2726	0.2993	0.2561
2.8	0.2809		0.2775		0.2789		0.2869		0.2989	
2.9	0.2847	0.2821	0.2829	0.2748	0.2867	0.2538	0.2911	0.2737	0.3009	0.2538
3.0	0.2884		0.2873		0.2917		0.2953		0.3028	
3.1		0.2851		0.2769		0.2545		0.2788		0.2577
3.2										
3.3		0.2887		0.2793		0.2557		0.2824		0.2584
3.4	0.2929		0.2948		0.3006		0.2970		0.3012	
3.5	0.2930	0.2942	0.2955	0.2850	0.3016	0.2586	0.2962	0.2888	0.3007	0.2603
3.6	0.2920		0.2959		0.3023		0.2948		0.3008	
3.7	0.2956	0.2987	0.3075	0.2880	0.3176	0.2572	0.2955	0.2896	0.3001	0.2626
3.8	0.2950		0.3030		0.3105		0.2964		0.3035	
3.9	0.2969	0.3025	0.3041	0.2979	0.3112	0.2712	0.2977	0.3008	0.3050	0.2724
4.0	0.3007		0.3069		0.3124		0.2976		0.3074	
4.1	0.3039		0.3067		0.3130		0.2980		0.3084	
4.3	0.3056	0.2980	0.3084	0.2935	0.3113	0.2690	0.3060	0.2939	0.3071	0.2799
4.4										
4.5		0.3050		0.2923		0.2760		0.2972		0.2841
4.6	0.3028		0.3082		0.3115		0.3026		0.3107	
4.7	0.3020		0.3092		0.3121		0.3018		0.3109	
4.8	0.3020		0.3101		0.3126		0.3022		0.3100	

4.9	0.3029	0.3062	0.3110	0.2991	0.3138	0.2843	0.3031	0.2957	0.3084	0.2808
5.0	0.3043		0.3111		0.3140		0.3047		0.3090	
5.1	0.3083	0.3026	0.3130	0.3015	0.3180	0.2846	0.3104	0.2982	0.3108	0.2800
5.3	0.3071	0.3008	0.3115	0.2981	0.3144	0.2834	0.3105	0.2985	0.3089	0.2834
5.4	0.3084		0.3100		0.3133		0.3094		0.3089	
5.5		0.2996		0.2987		0.2834		0.2991		0.2834
5.6										
5.7		0.3019		0.2967		0.2832		0.3002		0.2900
5.8	0.3097		0.3125		0.3118		0.3069		0.3185	
5.9	0.3093	0.3106	0.3121	0.3048	0.3119	0.2839	0.3072	0.3033	0.3185	0.2897
6.0	0.3118		0.3126		0.3139		0.3109		0.3176	
6.3	0.3106		0.3116		0.3117		0.3151		0.3174	
6.4	0.3114		0.3138		0.3135		0.3183		0.3194	
6.5	0.3142	0.3149	0.3128	0.3083	0.3133	0.2876	0.3173	0.3086	0.3208	0.2918
6.7	0.3142	0.3237	0.3148	0.3114	0.3197	0.2922	0.3171	0.3126	0.3208	0.2937
6.8	0.3134		0.3142		0.3201		0.3169		0.3208	
6.9	0.3142		0.3141		0.3203		0.3174		0.3234	
7.0	0.3130		0.3123		0.3171		0.3148		0.3224	
7.2	0.3154		0.3152		0.3155		0.3207		0.3244	
7.3	0.3156		0.3160		0.3138		0.3227		0.3242	
7.4	0.3156		0.3176		0.3136		0.3219		0.3244	
7.5	0.3154	0.3152	0.3158	0.3095	0.3234	0.3028	0.3195	0.3132	0.3238	0.3086
7.6	0.3156		0.3164		0.3148		0.3201		0.3285	
7.7	0.3145	0.3129	0.3150	0.3090	0.3153	0.2997	0.3189	0.3115	0.3296	0.3015
7.8										
7.9	0.3130	0.3106	0.3131	0.3086	0.3150	0.2951	0.3183	0.3077	0.3301	0.2979
8.0	0.3137		0.3131		0.3158		0.3189		0.3336	
8.1	0.3124	0.3087	0.3114	0.3056	0.3149	0.2915	0.3161	0.3048	0.3315	0.2933
8.2	0.3117		0.3104		0.3135		0.3137		0.3292	
8.3	0.3095	0.3070	0.3094	0.3034	0.3120	0.2922	0.3116	0.3011	0.3259	0.2898
8.5		0.3078		0.2999		0.2901		0.2997		0.2892
8.6										
8.8	0.3061	0.3127	0.3112	0.3032	0.3085	0.2942	0.3095	0.3063	0.3186	0.2881
9.0										
9.0	0.3078		0.3128		0.3086		0.3078		0.3137	
9.2	0.3111		0.3121		0.3134		0.3085		0.3106	
9.4	0.3115		0.3112		0.3105		0.3127		0.3156	
9.6	0.3113	0.3101	0.3110	0.3063	0.3127	0.2899	0.3129	0.3036	0.3182	0.2936
9.8	0.3102		0.3114		0.3059		0.3164		0.3250	
10.0	0.3105		0.3106		0.3062				0.3236	
10.2	0.3126		0.3109		0.3100		0.3142		0.3216	
10.4	0.3155	0.3149	0.3152	0.3049	0.3073	0.2906	0.3129	0.3114	0.3238	0.2973
10.6	0.3186		0.3211		0.3055		0.3256		0.3219	
10.8	0.3174		0.3180		0.3132		0.3285		0.3297	
11.0	0.3207		0.3171		0.3097		0.3247		0.3344	
11.2	0.3197	0.3143	0.3186	0.3129	0.3134	0.3002	0.3227	0.3102	0.3380	0.3011
11.4	0.3172		0.3168		0.3158		0.3231		0.3378	
11.6	0.3160		0.3166		0.3132		0.3215		0.3313	

Table II (Continued)
 $M_{\infty}=1.5$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.4	0.4380	0.4460	0.4033	0.4364	0.3848	0.4343	0.4793	0.4441	0.5181	0.4409
0.6	0.4457	0.4389	0.4716	0.4331	0.5205	0.4326	0.4020	0.4451	0.3917	0.4380
0.7	0.4412		0.4124		0.3876		0.4878		0.5277	
1.0		0.4412		0.4460		0.4310		0.4377		0.4231
1.2	0.4495		0.4149		0.3864		0.4786		0.5242	
1.3	0.4504	0.4578	0.4139	0.4407	0.3871	0.4317	0.4752	0.4389	0.5207	0.4265
1.4	0.1473		0.1349		0.1265		0.1558		0.1667	
1.4	0.1641		0.1732		0.1838		0.1445		0.1389	
1.5	0.1722	0.1736	0.1578	0.1667	0.1494	0.1641	0.1829	0.1675	0.1996	0.1598
1.6	0.1834		0.1738		0.1634		0.2037		0.2165	
1.7	0.1909		0.1767		0.1695		0.2071		0.2285	
1.8	0.1991		0.1916		0.1825		0.2251		0.2400	
1.9										
2.0	0.2109		0.2001		0.1967		0.2300		0.2514	
2.2	0.2227		0.2162		0.2101		0.2403		0.2612	
2.3	0.2273	0.2234	0.2230	0.2209	0.2164	0.2062	0.2446	0.2227	0.2621	0.2085
2.4	0.2318		0.2280		0.2232		0.2434		0.2632	
2.5	0.2342	0.2375	0.2315	0.2293	0.2295	0.2147	0.2439	0.2284	0.2619	0.2136
2.6	0.2396		0.2380		0.2363		0.2472		0.2633	
2.7		0.2434		0.2378		0.2234		0.2279		0.2184
2.8	0.2455		0.2439		0.2416		0.2482		0.2634	
2.9	0.2487	0.2465	0.2484	0.2379	0.2477	0.2196	0.2529	0.2390	0.2680	0.2199
3.0	0.2525		0.2522		0.2521		0.2588		0.2700	
3.1		0.2478		0.2436		0.2189		0.2450		0.2239
3.2	0.2575		0.2559		0.2553		0.2686		0.2739	
3.3		0.2506		0.2468		0.2205		0.2479		0.2245
3.4	0.2515		0.2586		0.2603		0.2648		0.2685	
3.5	0.2579	0.2538	0.2593	0.2489	0.2607	0.2234	0.2635	0.2497	0.2685	0.2241
3.6	0.2593		0.2601		0.2618		0.2619		0.2692	
3.7	0.2622	0.2517	0.2628	0.2438	0.2632	0.2216	0.2687	0.2452	0.2719	0.2206
3.8	0.2610		0.2618		0.2642		0.2635		0.2702	
3.9	0.2596	0.2595	0.2617	0.2527	0.2663	0.2293	0.2576	0.2504	0.2690	0.2303
4.0	0.2591		0.2617		0.2667		0.2560		0.2705	
4.1	0.2587		0.2624		0.2678		0.2563		0.2703	
4.3	0.2581	0.2633	0.2618	0.2525	0.2684	0.2319	0.2601	0.2552	0.2682	0.2362
4.4										
4.5		0.2660		0.2578		0.2355		0.2582		0.2405
4.6	0.2597		0.2647		0.2735		0.2562		0.2637	
4.7	0.2603		0.2654		0.2726		0.2566		0.2617	
4.8	0.2617		0.2668		0.2729		0.2575		0.2611	

4.9	0.2632	0.2653	0.2692	0.2590	0.2733	0.2454	0.2591	0.2574	0.2609	0.2397
5.0	0.2640		0.2697		0.2727		0.2611		0.2600	
5.1	0.2665	0.2647	0.2730	0.2612	0.2749	0.2456	0.2656	0.2573	0.2643	0.2400
5.3	0.2639	0.2634	0.2710	0.2629	0.2740	0.2458	0.2649	0.2539	0.2653	0.2431
5.4	0.2654		0.2713		0.2748		0.2648		0.2659	
5.5		0.2641		0.2612		0.2461		0.2553		0.2421
5.6										
5.7		0.2647		0.2605		0.2470		0.2542		0.2399
5.8	0.2685		0.2697		0.2712		0.2629		0.2678	
5.9	0.2675	0.2719	0.2687	0.2679	0.2700	0.2484	0.2628	0.2640	0.2666	0.2444
6.0	0.2679		0.2691		0.2701		0.2650		0.2681	
6.3	0.2677		0.2682		0.2710		0.2666		0.2693	
6.4	0.2721		0.2696		0.2741		0.2688		0.2703	
6.5	0.2725	0.2676	0.2684	0.2613	0.2732	0.2453	0.2697	0.2598	0.2686	0.2447
6.7	0.2718	0.2663	0.2684	0.2601	0.2736	0.2471	0.2776	0.2595	0.2739	0.2474
6.8	0.2694		0.2675		0.2730		0.2774		0.2786	
6.9	0.2675		0.2674		0.2734		0.2763		0.2808	
7.0	0.2638		0.2662		0.2710		0.2714		0.2801	
7.2	0.2634		0.2698		0.2725		0.2674		0.2779	
7.3	0.2627		0.2697		0.2721		0.2640		0.2741	
7.4	0.2641		0.2710		0.2731		0.2632		0.2738	
7.5	0.2660	0.2642	0.2697	0.2630	0.2710	0.2497	0.2672	0.2588	0.2752	0.2478
7.6	0.2678		0.2711		0.2732		0.2676		0.2772	
7.7	0.2697	0.2657	0.2718	0.2668	0.2719	0.2519	0.2693	0.2597	0.2748	0.2474
7.8										
7.9	0.2725	0.2645	0.2715	0.2627	0.2718	0.2493	0.2705	0.2584	0.2763	0.2460
8.0	0.2733		0.2710		0.2720		0.2713		0.2797	
8.1	0.2727	0.2654	0.2709	0.2632	0.2719	0.2486	0.2710	0.2609	0.2788	0.2477
8.2	0.2723		0.2720		0.2713		0.2704		0.2790	
8.3	0.2717	0.2669	0.2722	0.2617	0.2701	0.2484	0.2694	0.2578	0.2778	0.2454
8.5		0.2671		0.2605		0.2477		0.2586		0.2468
8.6	0.2718		0.2726		0.2714		0.2750		0.2772	
8.8	0.2704	0.2708	0.2727	0.2615	0.2702	0.2530	0.2772	0.2636	0.2779	0.2510
9.0										
9.0	0.2725		0.2720		0.2705		0.2745		0.2754	
9.2	0.2713		0.2715		0.2687		0.2718		0.2774	
9.4	0.2731		0.2721		0.2706		0.2731		0.2842	
9.6	0.2726	0.2773	0.2720	0.2744	0.2680	0.2545	0.2772	0.2722	0.2792	0.2696
9.8	0.2744		0.2744		0.2688		0.2823		0.2855	
10.0	0.2754				0.2680		0.2794		0.2871	
10.2	0.2747		0.2746		0.2723		0.2761		0.2886	
10.4	0.2732	0.2689	0.2718	0.2653	0.2710	0.2533	0.2746	0.2648	0.2872	0.2537
10.6	0.2701		0.2687		0.2686		0.2708		0.2810	
10.8	0.2673		0.2663		0.2650		0.2695		0.2792	
11.0	0.2647		0.2681		0.2623		0.2704		0.2773	
11.2	0.2649	0.2736	0.2699	0.2688	0.2620	0.2548	0.2678	0.2682	0.2745	0.2529
11.4	0.2700		0.2726		0.2636		0.2671		0.2745	
11.6	0.2758		0.2739		0.2680		0.2705		0.2754	

Table II (Concluded)

$M_\infty = 1.6$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.4	0.3897	0.3929	0.3600	0.3869	0.3291	0.3774	0.4292	0.3877	0.4742	0.3787
0.4	0.3943	0.3941	0.4409	0.3887	0.4726	0.3787	0.3680	0.3908	0.3365	0.3822
0.7	0.3908		0.3565		0.3390		0.4335		0.4772	
1.0		0.3883		0.3863		0.3799		0.3911		0.3792
1.2	0.4002		0.3594		0.3386		0.4371		0.4766	
1.3	0.3982	0.3890	0.3577	0.3882	0.3374	0.3771	0.4366	0.3867	0.4760	0.3784
1.4	0.1261		0.1105		0.1049		0.1393		0.1547	
1.4	0.1442		0.1631		0.1703		0.1344		0.1230	
1.5	0.1501	0.1457	0.1320	0.1497	0.1246	0.1406	0.1652	0.1457	0.1842	0.1408
1.6	0.1583		0.1364		0.1329		0.1681		0.1926	
1.7	0.1658		0.1474		0.1405		0.1823		0.2084	
1.8	0.1717		0.1512		0.1491		0.1802		0.2067	
1.9										
2.0	0.1815		0.1685		0.1599		0.1975		0.2250	
2.2	0.1952		0.1808		0.1754		0.2043		0.2304	
2.3	0.2013	0.1974	0.1873	0.1877	0.1821	0.1762	0.2059	0.1942	0.2289	0.1792
2.4	0.2043		0.1952		0.1880		0.2130		0.2328	
2.5	0.2046	0.2036	0.1989	0.1943	0.1920	0.1799	0.2167	0.2037	0.2335	0.1854
2.6	0.2075		0.2034		0.1985		0.2206		0.2347	
2.7	0.2084	0.2096		0.1937		0.1854		0.2097	0.2343	0.1960
2.8	0.2098		0.2055		0.2021		0.2201		0.2335	
2.9	0.2153	0.2151	0.2089	0.2040	0.2094	0.1888	0.2230	0.2083	0.2374	0.1874
3.0	0.2181		0.2123		0.2157		0.2251		0.2407	
3.1		0.2155		0.2116		0.1874		0.2105		0.1910
3.2										
3.3		0.2160		0.2171		0.1866		0.2167		0.1902
3.4	0.2179		0.2191		0.2268		0.2256		0.2387	
3.5	0.2198	0.2205	0.2199	0.2173	0.2261	0.1861	0.2231	0.2176	0.2373	0.1884
3.6	0.2221		0.2214		0.2262		0.2218		0.2369	
3.7	0.2264	0.2226	0.2295	0.2107	0.2300	0.1824	0.2257	0.2107	0.2318	0.1846
3.8	0.2270		0.2280		0.2299		0.2251		0.2350	
3.9	0.2286	0.2329	0.2255	0.2174	0.2293	0.1939	0.2240	0.2170	0.2357	0.1947
4.0	0.2290		0.2260		0.2305		0.2269		0.2352	
4.1	0.2300		0.2267		0.2322		0.2293		0.2371	
4.3	0.2284	0.2307	0.2329	0.2178	0.2368	0.1949	0.2297	0.2175	0.2371	0.1989
4.4										
4.5		0.2304		0.2229		0.2006		0.2229		0.2039
4.6	0.2281		0.2308		0.2397		0.2342		0.2365	
4.7	0.2293		0.2311		0.2402		0.2330		0.2343	
4.8	0.2299		0.2312		0.2399		0.2317		0.2330	

4.9	0.2313	0.2308	0.2341	0.2240	0.2399	0.2034	0.2323	0.2291	0.2320	0.2052
5.0	0.2314		0.2339		0.2390		0.2324		0.2309	
5.1	0.2347	0.2333	0.2362	0.2255	0.2411	0.2054	0.2347	0.2297	0.2353	0.2083
5.3	0.2352	0.2324	0.2334	0.2212	0.2385	0.2056	0.2312	0.2281	0.2366	0.2114
5.4	0.2372		0.2349		0.2397		0.2317		0.2374	
5.5		0.2321		0.2245		0.2107		0.2274		0.2114
5.6										
5.7		0.2284		0.2182		0.2091		0.2251		0.2135
5.8	0.2357		0.2341		0.2370		0.2343		0.2400	
5.9	0.2352	0.2346	0.2336	0.2267	0.2363	0.2147	0.2362	0.2288	0.2400	0.2165
6.0	0.2353		0.2351		0.2371		0.2373		0.2405	
6.3	0.2300		0.2320		0.2335		0.2363		0.2386	
6.4	0.2327		0.2332		0.2335		0.2368		0.2398	
6.5	0.2312	0.2332	0.2320	0.2257	0.2327	0.2113	0.2339	0.2275	0.2400	0.2138
6.7	0.2348	0.2343	0.2332	0.2293	0.2361	0.2106	0.2339	0.2293	0.2429	0.2149
6.8	0.2341		0.2325		0.2370		0.2339		0.2417	
6.9	0.2343		0.2329		0.2375		0.2338		0.2424	
7.0	0.2336		0.2305		0.2341		0.2307		0.2415	
7.2	0.2358		0.2310		0.2334		0.2332		0.2405	
7.3	0.2348		0.2296		0.2320		0.2336		0.2405	
7.4	0.2355		0.2329		0.2329		0.2360		0.2412	
7.5	0.2336	0.2357	0.2310	0.2261	0.2322	0.2121	0.2358	0.2297	0.2398	0.2167
7.6	0.2345		0.2324		0.2344		0.2396		0.2419	
7.7	0.2346	0.2340	0.2313	0.2266	0.2349	0.2145	0.2385	0.2308	0.2429	0.2162
7.8										
7.9	0.2343	0.2332	0.2322	0.2264	0.2348	0.2109	0.2399	0.2292	0.2427	0.2145
8.0	0.2333		0.2319		0.2341		0.2403		0.2427	
8.1	0.2317	0.2364	0.2317	0.2295	0.2329	0.2124	0.2401	0.2302	0.2429	0.2142
8.2	0.2310		0.2323		0.2321		0.2387		0.2427	
8.3	0.2314	0.2358	0.2330	0.2286	0.2315	0.2186	0.2374	0.2315	0.2427	0.2164
8.5		0.2324		0.2278		0.2158		0.2292		0.2165
8.6	0.2357		0.2324		0.2329		0.2353		0.2429	
8.8	0.2372	0.2316	0.2335	0.2218	0.2316	0.2128	0.2363	0.2284	0.2470	0.2200
9.0										
9.0	0.2355		0.2325		0.2277		0.2363		0.2448	
9.2	0.2331		0.2285		0.2249		0.2370		0.2439	
9.4	0.2313		0.2270		0.2250		0.2350		0.2451	
9.6	0.2296	0.2344	0.2256	0.2240	0.2247	0.2111	0.2309	0.2290	0.2389	0.2151
9.8	0.2322		0.2289		0.2269		0.2325		0.2390	
10.0	0.2333		0.2309		0.2273		0.2387		0.2410	
10.2	0.2331		0.2327		0.2295		0.2367		0.2439	
10.4	0.2318	0.2281	0.2337	0.2224	0.2299	0.2112	0.2363	0.2249	0.2463	0.2155
10.6	0.2305		0.2331		0.2296		0.2330		0.2451	
10.8	0.2316		0.2336		0.2287		0.2321		0.2448	
11.0	0.2342		0.2333		0.2271		0.2299		0.2408	
11.2	0.2357	0.2325	0.2339	0.2279	0.2295	0.2147	0.2329	0.2272	0.2395	0.2136
11.4	0.2352		0.2336		0.2300		0.2353		0.2393	
11.6	0.2360		0.2343		0.2305		0.2384		0.2376	

TABLE III
60-DEG CONE-CYLINDER STATIC PRESSURE DISTRIBUTIONS
 $M_\infty = 0.6$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.3	0.8767	0.8778	0.8577	0.8738	0.8397	0.8632	0.8957	0.8752	0.9130	0.8647
0.3	0.8791	0.8800	0.8972	0.8758	0.9138	0.8682	0.8610	0.8787	0.8435	0.8697
0.6		0.8347		0.8301		0.8227		0.8309		0.8232
0.7	0.8078		0.7930		0.7800		0.8237		0.8396	
0.8	0.7669	0.7666	0.7556	0.7641	0.7474	0.7590	0.7738	0.7644	0.7910	0.7600
0.9	0.6326	0.6270	0.6399	0.6351	0.6524	0.6319	0.6167	0.6345	0.5929	0.6371
0.9	0.6354		0.6105		0.5891		0.4265		0.6776	
1.0	0.6273	0.6227	0.6339	0.6274	0.6473	0.6283	0.6121	0.6269	0.5961	0.6332
1.1	0.6378	0.6369	0.6455	0.6327	0.6543	0.6305	0.6313	0.6323	0.6913	0.6350
1.3	0.7033	0.7112	0.6949	0.7092	0.6900	0.7083	0.7539	0.7095	0.7811	0.7021
1.5	0.7612		0.7461		0.7315		0.7814		0.7772	
1.6	0.7734		0.7617		0.7476		0.7811		0.7782	
1.7	0.7782	0.7782	0.7706	0.7745	0.7591	0.7628	0.7800	0.7756	0.7785	0.7653
1.8	0.7803		0.7757		0.7675		0.7805		0.7804	
1.9	0.7796	0.7793	0.7777	0.7754	0.7725	0.7635	0.7790	0.7773	0.7796	0.7658
2.0	0.7785		0.7779		0.7751		0.7781		0.7792	
2.1	0.7796	0.7796	0.7793	0.7761	0.7777	0.7650	0.7800	0.7775	0.7821	0.7681
2.1										
2.2	0.7800		0.7797		0.7794		0.7806		0.7827	
2.3	0.7796	0.7796	0.7797	0.7765	0.7797	0.7667	0.7806	0.7786	0.7835	0.7692
2.4	0.7797		0.7796		0.7807		0.7805		0.7829	
2.5	0.7799	0.7807	0.7799	0.7775	0.7807	0.7685	0.7814	0.7791	0.7840	0.7710
2.6	0.7800		0.7801		0.7808		0.7813		0.7841	
2.7	0.7810	0.7801	0.7807	0.7769	0.7811	0.7683	0.7829	0.7785	0.7857	0.7706
2.8	0.7800		0.7799		0.7807		0.7819		0.7846	
2.9	0.7799	0.7805	0.7803	0.7779	0.7813	0.7692	0.7821	0.7790	0.7853	0.7715
3.0	0.7805		0.7806		0.7810		0.7825		0.7853	
3.1	0.7798	0.7804	0.7798	0.7780	0.7803	0.7695	0.7820	0.7791	0.7849	0.7720
3.2	0.7800		0.7801		0.7803		0.7820		0.7850	
3.3	0.7802	0.7799	0.7801	0.7773	0.7805	0.7686	0.7822	0.7786	0.7851	0.7714
3.4	0.7808		0.7809		0.7809		0.7830		0.7860	
3.5		0.7809		0.7777		0.7692		0.7794		0.7723
3.6	0.7792		0.7792		0.7789		0.7826		0.7843	
3.7	0.7809	0.7812	0.7806	0.7783	0.7805	0.7701	0.7828	0.7792	0.7858	0.7721
3.8	0.7808		0.7805		0.7807		0.7827		0.7858	
3.9	0.7808	0.7816	0.7810	0.7790	0.7803	0.7710	0.7830	0.7801	0.7867	0.7724
4.0	0.7812		0.7811		0.7806		0.7831		0.7860	
4.1	0.7831	0.7829	0.7828	0.7803	0.7825	0.7730	0.7848	0.7819	0.7881	0.7747
4.2	0.7817		0.7812		0.7806		0.7836		0.7863	

4.3	0.7808	0.7814	0.7803	0.7785	0.7798	0.7704	0.7825	0.7801	0.7863	0.7725
4.4	0.7810		0.7814		0.7802		0.7830		0.7863	
4.5	0.7809	0.7817	0.7806	0.7790	0.7801	0.7715	0.7828	0.7801	0.7858	0.7730
4.6	0.7819		0.7819		0.7813		0.7838		0.7869	
4.7	0.7815	0.7806	0.7810	0.7798	0.7800	0.7729	0.7833	0.7812	0.7864	0.7725
4.8	0.7814		0.7813		0.7803		0.7832		0.7867	
4.9	0.7815	0.7820	0.7812	0.7790	0.7805	0.7719	0.7834	0.7809	0.7865	0.7739
5.0	0.7823		0.7808		0.7810		0.7843		0.7871	
5.1										
5.2	0.7840		0.7839		0.7822				0.7887	
5.3	0.7812		0.7807		0.7797		0.7830		0.7862	
5.4	0.7821		0.7818		0.7806		0.7838		0.7871	
5.5	0.7814	0.7823	0.7811	0.7794	0.7799	0.7717	0.7831	0.7810	0.7862	0.7742
5.7	0.7830	0.7809	0.7825	0.7783	0.7813	0.7709	0.7845	0.7863	0.7880	0.7729
5.8	0.7819		0.7817		0.7804		0.7837		0.7870	
5.9	0.7822		0.7819		0.7807		0.7841		0.7870	
6.0	0.7819		0.7816		0.7802		0.7836		0.7867	
6.2	0.7821		0.7816		0.7803				0.7871	
6.3	0.7816		0.7811		0.7796		0.7838		0.7864	
6.4	0.7822		0.7817		0.7804		0.7839		0.7869	
6.5	0.7817	0.7830	0.7811	0.7802	0.7801	0.7727	0.7831	0.7821	0.7863	0.7750
6.6	0.7819		0.7818		0.7801		0.7838		0.7869	
6.7	0.7823	0.7828	0.7818	0.7802	0.7803	0.7734	0.7842	0.7813	0.7874	0.7759
6.8	0.7826		0.7817		0.7803		0.7841		0.7874	
6.9	0.7833	0.7822	0.7825	0.7801	0.7807	0.7725	0.7845	0.7815	0.7879	0.7739
7.0	0.7829		0.7822		0.7809		0.7846		0.7878	
7.1	0.7826	0.7830	0.7821	0.7806	0.7804	0.7728	0.7840	0.7817	0.7876	0.7749
7.2	0.7830		0.7825		0.7810		0.7851		0.7881	
7.3	0.7834	0.7823	0.7829	0.7802	0.7812	0.7728	0.7851	0.7818	0.7877	0.7751
7.4	0.7828		0.7825		0.7807		0.7845		0.7878	
7.5	0.7826	0.7833	0.7835	0.7812	0.7807	0.7737	0.7845	0.7823	0.7878	0.7763
7.6	0.7829		0.7828		0.7811		0.7850		0.7881	
7.8	0.7832	0.7841	0.7825	0.7817	0.7810	0.7742	0.7849	0.7834	0.7881	0.7768
8.0	0.7825		0.7845		0.7882		0.7829		0.7812	
8.0	0.7823		0.7825		0.7805		0.7838		0.7878	
8.2	0.7840		0.7832		0.7811		0.7857		0.7890	
8.4	0.7836		0.7830		0.7812		0.7853		0.7887	
8.6	0.7843	0.7834	0.7838	0.7810	0.7817	0.7742	0.7863	0.7821	0.7892	0.7762
8.8	0.7842		0.7835		0.7818		0.7862		0.7892	
9.0	0.7847		0.7839		0.7825		0.7866		0.7896	
9.2	0.7856		0.7850		0.7831		0.7863		0.7906	
9.4	0.7851	0.7846	0.7847	0.7823	0.7828	0.7767	0.7872	0.7837	0.7904	0.7774
9.6	0.7854		0.7847		0.7830		0.7875		0.7910	
9.8	0.7856		0.7848		0.7829		0.7877		0.7908	
10.0	0.7855		0.7850		0.7828		0.7875		0.7906	
10.2	0.7865	0.7860	0.7859	0.7848	0.7841	0.7774	0.7888	0.7856	0.7919	0.7800
10.6	0.7867		0.7862		0.7843		0.7884		0.7912	

Table III (Continued)
 $M_\infty = 0.7$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=3$	$\psi=3$	$\alpha=-4$	$\psi=-4$	$\alpha=-3$	$\psi=-3$
0.3	0.8458	0.8474	0.8224	0.8425	0.7987	0.8290	0.8653	0.8433	0.8903	0.8307
0.3	0.8492	0.8496	0.8704	0.8449	0.8919	0.8323	0.8250	0.8463	0.8020	0.8373
0.6		0.7963		0.7898		0.7789		0.7897		0.7802
0.7	0.7643		0.7446		0.7265		0.7829		0.8034	
0.8	0.7176	0.7174	0.7023	0.7128	0.6894	0.7042	0.7313	0.7131	0.7431	0.7056
0.9	0.5569	0.5508	0.5695	0.5525	0.5850	0.5429	0.5237	0.5520	0.5010	0.5478
0.9	0.5515		0.5220		0.4954		0.5518		0.5717	
1.0	0.5521	0.5464	0.5619	0.5456	0.5772	0.5339	0.5241	0.5454	0.4962	0.5434
1.1	0.5492	0.5448	0.5376	0.5437	0.5705	0.5301	0.5219	0.5427	0.5277	0.5423
1.3	0.5770	0.5331	0.5786	0.5311	0.5327	0.5783	0.6024	0.5027	0.7078	0.5019
1.5	0.6410		0.5312		0.6225		0.7052		0.7221	
1.6	0.6724		0.6575		0.6442		0.7208		0.7129	
1.7	0.6962	0.6934	0.6790	0.7029	0.6641	0.6927	0.7236	0.7023	0.7132	0.6974
1.8	0.7116		0.5955		0.6814		0.7233		0.7122	
1.9	0.7190	0.7193	0.7064	0.7156	0.6941	0.6961	0.7210	0.7159	0.7179	0.7019
2.0	0.7213		0.7115		0.7014		0.7133		0.7173	
2.1	0.7214	0.7223	0.7161	0.7169	0.7094	0.6989	0.7155	0.7184	0.7203	0.7044
2.1										
2.2	0.7225		0.7187		0.7139		0.7192		0.7206	
2.3	0.7220	0.7222	0.7196	0.7162	0.7169	0.7001	0.7192	0.7185	0.7213	0.7053
2.4	0.7214		0.7198		0.7184		0.7193		0.7219	
2.5	0.7210	0.7212	0.7202	0.7167	0.7193	0.7022	0.7198	0.7182	0.7226	0.7077
2.6	0.7203		0.7200		0.7194		0.7194		0.7227	
2.7	0.7213	0.7190	0.7204	0.7142	0.7199	0.7009	0.7210	0.7157	0.7245	0.7059
2.8	0.7197		0.7194		0.7192		0.7196		0.7234	
2.9	0.7193	0.7197	0.7192	0.7160	0.7192	0.7035	0.7201	0.7170	0.7232	0.7079
3.0	0.7177		0.7195		0.7192		0.7203		0.7239	
3.1	0.7186	0.7193	0.7185	0.7158	0.7185	0.7034	0.7196	0.7168	0.7236	0.7081
3.2	0.7187		0.7184		0.7180		0.7194		0.7236	
3.3	0.7183	0.7185	0.7183	0.7148	0.7180	0.7030	0.7194	0.7161	0.7238	0.7075
3.4	0.7193		0.7190		0.7183		0.7204		0.7250	
3.5		0.7190		0.7153		0.7037		0.7171		0.7087
3.6	0.7187		0.7186		0.7175		0.7205		0.7245	
3.7	0.7187	0.7191	0.7185	0.7159	0.7173	0.7044	0.7203	0.7164	0.7248	0.7085
3.8	0.7186		0.7182		0.7170		0.7200		0.7253	
3.9	0.7191	0.7195	0.7184	0.7160	0.7171	0.7054	0.7204	0.7170	0.7253	0.7085
4.0	0.7186		0.7185		0.7171		0.7205		0.7253	
4.1	0.7205	0.7210	0.7195	0.7179	0.7184	0.7072	0.7222	0.7183	0.7273	0.7111
4.2	0.7189		0.7184		0.7168		0.7208		0.7253	

4.3	0.7184	0.7192	0.7177	0.7160	0.7161	0.7049	0.7204	0.7163	0.7255	0.7091
4.4	0.7193		0.7188		0.7163		0.7204		0.7251	
4.5	0.7185	0.7190	0.7178	0.7166	0.7157	0.7057	0.7201	0.7170	0.7248	0.7096
4.6	0.7197		0.7192		0.7169		0.7213		0.7257	
4.7	0.7185	0.7203	0.7174	0.7149	0.7145	0.7068	0.7207	0.7184	0.7255	0.7107
4.8	0.7191		0.7185		0.7162		0.7210		0.7259	
4.9	0.7193	0.7198	0.7186	0.7169	0.7165	0.7063	0.7209	0.7176	0.7258	0.7102
5.0	0.7196		0.7189		0.7143		0.7214		0.7264	
5.1										
5.2	0.7197		0.7192		0.7169		0.7222		0.7287	
5.3	0.7186		0.7183		0.7158		0.7206		0.7262	
5.4	0.7197		0.7190		0.7169		0.7214		0.7264	
5.5	0.7190	0.7196	0.7183	0.7167	0.7159	0.7062	0.7207	0.7179	0.7255	0.7111
5.7	0.7206	0.7188	0.7197	0.7158	0.7174	0.7056	0.7224	0.7163	0.7273	0.7095
5.8	0.7196		0.7189		0.7161		0.7213		0.7264	
5.9	0.7198		0.7191		0.7165		0.7216		0.7266	
6.0	0.7193		0.7188		0.7159		0.7213		0.7260	
6.2	0.7195		0.7190		0.7162		0.7215		0.7266	
6.3	0.7188		0.7188		0.7157		0.7206		0.7259	
6.4	0.7198		0.7191		0.7161		0.7215		0.7262	
6.5	0.7193	0.7198	0.7183	0.7177	0.7153	0.7077	0.7211	0.7195	0.7257	0.7124
6.6	0.7199		0.7190		0.7155		0.7215		0.7262	
6.7	0.7199	0.7194	0.7192	0.7175	0.7152	0.7076	0.7217	0.7199	0.7263	0.7129
6.8	0.7199		0.7194		0.7151		0.7218		0.7267	
6.9	0.7205	0.7198	0.7200	0.7174	0.7170	0.7059	0.7224	0.7162	0.7276	0.7111
7.0	0.7192		0.7200		0.7163		0.7225		0.7275	
7.1	0.7202	0.7206	0.7194	0.7182	0.7162	0.7078	0.7219	0.7162	0.7271	0.7120
7.2	0.7208		0.7203		0.7170		0.7228		0.7278	
7.3	0.7206	0.7207	0.7199	0.7173	0.7171	0.7031	0.7232	0.7133	0.7280	0.7115
7.4	0.7207		0.7199		0.7167		0.7224		0.7276	
7.5	0.7205	0.7217	0.7197	0.7132	0.7165	0.7062	0.7229	0.7193	0.7273	0.7127
7.6	0.7209		0.7202		0.7168		0.7227		0.7278	
7.8	0.7210	0.7222	0.7200	0.7190	0.7163	0.7092	0.7230	0.7200	0.7278	0.7134
8.0	0.7211		0.7231		0.7261		0.7206		0.7195	
8.0	0.7206		0.7196		0.7166		0.7226		0.7271	
8.2	0.7218		0.7209		0.7174		0.7234		0.7239	
8.4	0.7214		0.7205		0.7170		0.7232		0.7232	
8.6	0.7222	0.7215	0.7216	0.7189	0.7180	0.7090	0.7240	0.7199	0.7291	0.7132
8.8	0.7223		0.7218		0.7182		0.7241		0.7300	
9.0	0.7232		0.7222		0.7188		0.7250		0.7303	
9.2	0.7241		0.7229		0.7193		0.7261		0.7314	
9.4	0.7236	0.7228	0.7228	0.7207	0.7192	0.7107	0.7258	0.7211	0.7300	0.7146
9.6	0.7237		0.7227		0.7193		0.7254		0.7305	
9.8	0.7243		0.7234		0.7199		0.7258		0.7312	
10.0	0.7240		0.7232		0.7196		0.7258		0.7306	
10.2	0.7253	0.7255	0.7247	0.7234	0.7213	0.7141	0.7276	0.7241	0.7327	0.7177
10.6	0.7255		0.7251		0.7217		0.7268		0.7318	

Table III (Continued)
 $M_\infty = 0.8$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.3	0.8181	0.8199	0.7912	0.8143	0.7629	0.7989	0.8447	0.8156	0.8700	0.8003
0.3	0.8210	0.8230	0.8475	0.8177	0.8726	0.8030	0.7932	0.8191	0.7641	0.8067
0.6		0.7615		0.7545		0.7423		0.7549		0.7423
0.7	0.7272		0.7054		0.6821		0.7499		0.7732	
0.8	0.6779	0.6788	0.6606	0.6734	0.6419	0.6630	0.6962	0.6733	0.7161	0.6631
0.9	0.4727	0.4716	0.4998	0.4676	0.5144	0.3613	0.4402	0.4681	0.4068	0.3597
0.9	0.4714		0.4365		0.4050		0.4914		0.5062	
1.0	0.4679	0.4680	0.4936	0.4641	0.5051	0.4501	0.4376	0.4635	0.4037	0.4484
1.1	0.4651	0.4645	0.4858	0.4593	0.4946	0.4480	0.4349	0.4584	0.4111	0.4458
1.3	0.4721	0.4762	0.4844	0.4743	0.4869	0.4726	0.4656	0.4740	0.5171	0.4706
1.5	0.5104		0.5095		0.5094		0.5474		0.6430	
1.6	0.5366		0.5284		0.5283		0.5911		0.6574	
1.7	0.5635	0.5636	0.5496	0.5736	0.5484	0.5915	0.6255	0.5731	0.6578	0.5868
1.8	0.5913		0.5729		0.5704		0.6481		0.6567	
1.9	0.6157	0.6151	0.5943	0.6251	0.5910	0.6213	0.6589	0.6251	0.6542	0.6212
2.0	0.6324		0.6092		0.6037		0.6617		0.6523	
2.1	0.6477	0.6516	0.6264	0.6517	0.6207	0.6307	0.6626	0.6523	0.6535	0.6328
2.1										
2.2	0.6570		0.6407		0.6347		0.6619		0.6546	
2.3	0.6616	0.6633	0.6489	0.6568	0.6431	0.6335	0.6616	0.6582	0.6559	0.6362
2.4	0.6639		0.6541		0.6501		0.6605		0.6560	
2.5	0.6644	0.6655	0.6581	0.6579	0.6542	0.6364	0.6599	0.6595	0.6570	0.6393
2.6	0.6641		0.6600		0.6568		0.6592		0.6570	
2.7	0.6639	0.6623	0.6614	0.6554	0.6589	0.6356	0.6597	0.6560	0.6591	0.6370
2.8	0.6623		0.6610		0.6591		0.6584		0.6580	
2.9	0.6615	0.6615	0.6608	0.6561	0.6590	0.6393	0.6582	0.6566	0.6589	0.6406
3.0	0.6607		0.6610		0.6592		0.6584		0.6589	
3.1	0.6589	0.6598	0.6596	0.6551	0.6585	0.6395	0.6573	0.6555	0.6587	0.6406
3.2	0.6582		0.6589		0.6580		0.6568		0.6585	
3.3	0.6577	0.6577	0.6582	0.6440	0.6575	0.6384	0.6570	0.6561	0.6587	0.6402
3.4	0.6578		0.6583		0.6576		0.6578		0.6601	
3.5		0.6574		0.6533		0.6398		0.6539		0.6411
3.6	0.6570		0.6570		0.6563		0.6572		0.6586	
3.7	0.6563	0.6564	0.6568	0.6528	0.6555		0.6570	0.6531	0.6598	0.6410
3.8	0.6560		0.6561		0.6551		0.6567		0.6594	
3.9	0.6560	0.6569	0.6563	0.6537	0.6549	0.6418	0.6567	0.6532	0.6601	0.6415
4.0	0.6557		0.6560		0.6548		0.6571		0.6603	
4.1	0.6576	0.6578	0.6570	0.6550	0.6558	0.6431	0.6585	0.6546	0.6621	0.6436
4.2	0.6555		0.6554		0.6538		0.6569		0.6605	

4.3	0.6549	0.6555	0.6549	0.6524	0.6529	0.6407	0.6565	0.6527	0.6605	0.6410
4.4	0.6551		0.6549		0.6531		0.6569		0.6608	
4.5	0.6549	0.6555	0.6550	0.6529	0.6527	0.6418	0.6563	0.6530	0.6598	0.6418
4.6	0.6553		0.6560		0.6539		0.6573		0.6614	
4.7	0.6558	0.6566	0.6549	0.6535	0.6516	0.6426	0.6577	0.6543	0.6614	0.6437
4.8	0.6553		0.6549		0.6528		0.6573		0.6610	
4.9	0.6551	0.6555	0.6549	0.6532	0.6526	0.6419	0.6571	0.6528	0.6606	0.6419
5.0	0.6556		0.6555		0.6531		0.6579		0.6619	
5.1										
5.2	0.6573		0.6560		0.6550		0.6596		0.6610	
5.3	0.6550		0.6544		0.6521		0.6571		0.6606	
5.4	0.6555		0.6555		0.6525		0.6577		0.6612	
5.5	0.6548	0.6559	0.6546	0.6530	0.6518	0.6418	0.6566	0.6534	0.6601	0.6431
5.7	0.6568	0.6542	0.6564	0.6519	0.6534	0.6412	0.6587	0.6520	0.6624	0.6417
5.8	0.6556		0.6554		0.6524		0.6580		0.6619	
5.9	0.6558		0.6554		0.6524		0.6578		0.6606	
6.0	0.6553		0.6549		0.6519		0.6571		0.6608	
6.2	0.6557		0.6555		0.6523		0.6575		0.6615	
6.3	0.6548		0.6544		0.6519		0.6575		0.6605	
6.4	0.6558		0.6554		0.6522		0.6578		0.6613	
6.5	0.6553	0.6566	0.6547	0.6541	0.6516	0.6433	0.6573	0.6547	0.6610	0.6446
6.6	0.6552		0.6551		0.6527		0.6577		0.6610	
6.7	0.6561	0.6562	0.6555	0.6536	0.6522	0.6453	0.6584	0.6553	0.6614	0.6448
6.8	0.6558		0.6554		0.6520		0.6581		0.6617	
6.9	0.6567	0.6564	0.6563	0.6535	0.6529	0.6430	0.6590	0.6536	0.6626	0.6438
7.0	0.6552		0.6561		0.6527		0.6585		0.6626	
7.1	0.6562	0.6566	0.6556	0.6543	0.6521	0.6436	0.6582	0.6546	0.6619	0.6447
7.2	0.6568		0.6562		0.6529		0.6591		0.6628	
7.3	0.6568	0.6559	0.6567	0.6544	0.6533	0.6435	0.6593	0.6539	0.6633	0.6442
7.4	0.6565		0.6560		0.6528		0.6587		0.6628	
7.5	0.6571	0.6572	0.6561	0.6549	0.6528	0.6440	0.6589	0.6549	0.6626	0.6448
7.6	0.6569		0.6565		0.6535		0.6592		0.6633	
7.8	0.6572	0.6577	0.6566	0.6556	0.6531	0.6448	0.6593	0.6560	0.6630	0.6461
8.0	0.6571		0.6599		0.6646		0.6562		0.6523	
8.0	0.6573		0.6566		0.6529		0.6589		0.6633	
8.2	0.6578		0.6576		0.6538		0.6601		0.6642	
8.4	0.6578		0.6570		0.6534		0.6601		0.6641	
8.6	0.6584	0.6575	0.6577	0.6555	0.6540	0.6451	0.6605	0.6556	0.6646	0.6459
8.8	0.6587		0.6582		0.6547		0.6612		0.6659	
9.0	0.6598		0.6592		0.6556		0.6623		0.6664	
9.2	0.6591		0.6602		0.6567		0.6630		0.6674	
9.4	0.6603	0.6590	0.6598	0.6576	0.6562	0.6470	0.6628	0.6574	0.6669	0.6481
9.6	0.6601		0.6597		0.6564		0.6626		0.6666	
9.8	0.6605		0.6606		0.6570		0.6628		0.6667	
10.0	0.6612		0.6610		0.6572		0.6635		0.6674	
10.2	0.6630	0.6631	0.6624	0.6611	0.6590	0.6507	0.6653	0.6606	0.6692	0.6512
10.6	0.6637		0.6636		0.6601		0.6650		0.6689	

Table III (Continued)
 $M_{\infty} = 0.9$

x/d	P/P_1					
	$\alpha = 0$	$\psi = 0$	$\alpha = 4$	$\psi = 4$	$\alpha = 8$	$\psi = 8$
0.3	0.7976	0.7999	0.7669	0.7936	0.7361	0.7753
0.3	0.8001	0.8022	0.8292	0.7976	0.8571	0.7799
0.6		0.7388		0.7306		0.7160
0.7	0.7035		0.6777		0.6524	
0.8	0.6561	0.6573	0.6350	0.6511	0.6144	0.6392
0.9	0.2776	0.2716	0.3940	0.3077	0.4307	0.2801
0.9	0.2367		0.2356		0.2368	
1.0	0.2542	0.1673	0.3853	0.3174	0.4216	0.3360
1.1	0.2425	0.2076	0.3741	0.3192	0.4061	0.3299
1.3	0.2784	0.2923	0.3691	0.3526	0.3869	0.3621
1.5	0.4834		0.3960		0.3962	
1.6	0.5201		0.4156		0.4091	
1.7	0.5599		0.4341	0.4579	0.4236	0.4709
1.8	0.6036		0.4567		0.4425	
1.9	0.6276	0.6282	0.4787	0.5128	0.4625	0.5088
2.0	0.6308		0.4917		0.4731	
2.1	0.6235	0.6208	0.5184	0.5577	0.5025	0.5352
2.1						
2.2	0.6168		0.5394		0.5221	
2.3	0.6120	0.6135	0.5550	0.5785	0.5391	0.5499
2.4	0.6079		0.5684		0.5538	
2.5	0.6047	0.6058	0.5789	0.5889	0.5668	0.5611
2.6	0.6014		0.5864		0.5771	
2.7	0.6007	0.5977	0.5927	0.5904	0.5849	0.5643
2.8	0.5982		0.5959		0.5905	
2.9	0.5962	0.5972	0.5980	0.5940	0.5949	0.5718
3.0	0.5957		0.6000		0.5977	
3.1	0.5939	0.5948	0.5998	0.5937	0.5988	0.5730
3.2	0.5929		0.5991		0.5992	
3.3	0.5925	0.5919	0.5980	0.5913	0.5995	0.5732
3.4	0.5928		0.5985		0.5995	
3.5		0.5921		0.5916		0.5749
3.6	0.5921		0.5966		0.5981	
3.7	0.5913	0.5911	0.5957	0.5903	0.5969	
3.8	0.5909		0.5950		0.5956	
3.9	0.5912	0.5918	0.5949	0.5901	0.5950	0.5766
4.0	0.5911		0.5941		0.5938	
4.1	0.5930	0.5928	0.5951	0.5911	0.5949	0.5782
4.2	0.5907		0.5924		0.5922	

4.3	0.5900	0.5907	0.5921	0.5885	0.5915	0.5769
4.4	0.5903		0.5916		0.5908	
4.5	0.5901	0.5905	0.5908	0.5885	0.5898	0.5766
4.6	0.5912		0.5918		0.5904	
4.7	0.5926	0.5915	0.5917	0.5893	0.5879	0.5777
4.8	0.5906		0.5905		0.5887	
4.9	0.5903	0.5908	0.5901	0.5880	0.5880	0.5762
5.0	0.5913		0.5908		0.5884	
5.1						
5.2	0.5918		0.5925		0.5878	
5.3			0.5894		0.5867	
5.4	0.5913		0.5902		0.5875	
5.5	0.5901	0.5913	0.5890	0.5878	0.5864	0.5763
5.7	0.5923	0.5903	0.5911	0.5867	0.5881	0.5787
5.8	0.5914		0.5899		0.5868	
5.9	0.5914		0.5899		0.5866	
6.0	0.5907		0.5892		0.5861	
6.2	0.5911		0.5896		0.5862	
6.3	0.5842		0.5888		0.5853	
6.4	0.5914		0.5895		0.5862	
6.5	0.5907	0.5929	0.5891	0.5878	0.5856	0.5774
6.6	0.5911		0.5891		0.5858	
6.7	0.5918	0.5917	0.5895	0.5876	0.5861	0.5791
6.8	0.5915		0.5895		0.5857	
6.9	0.5925	0.5916	0.5905	0.5878	0.5864	0.5773
7.0	0.5924		0.5904		0.5866	
7.1	0.5916	0.5923	0.5900	0.5888	0.5858	0.5779
7.2	0.5927		0.5906		0.5866	
7.3	0.5929	0.5914	0.5903	0.5887	0.5866	0.5775
7.4	0.5925		0.5905		0.5866	
7.5	0.5926	0.5932	0.5907	0.5897	0.5866	0.5786
7.6	0.5930		0.5910		0.5872	
7.8	0.5931	0.5942	0.5909	0.5902	0.5868	0.5796
8.0	0.5929		0.5952		0.6009	
8.0	0.5929		0.5907		0.5868	
8.2	0.5941		0.5917		0.5875	
8.4	0.5937		0.5913		0.5871	
8.6	0.5943	0.5938	0.5920	0.5903	0.5886	0.5797
8.8	0.5951		0.5926		0.5885	
9.0	0.5964		0.5937		0.5902	
9.2	0.5959		0.5950		0.5895	
9.4	0.5973	0.5961	0.5948	0.5929	0.5910	0.5822
9.6	0.5973		0.5947		0.5910	
9.8	0.5984		0.5960		0.5923	
10.0	0.5982		0.5964		0.5925	
10.2	0.6004	0.5999	0.5985	0.5970	0.5947	0.5869
10.6	0.6016		0.6003		0.5974	

Table III (Continued)
 $M_{\infty} = 0.95$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.3	0.7936	0.7940	0.7629	0.7874	0.7302	0.7697	0.8254	0.7887	0.8546	0.7726
0.3	0.7947	0.7985	0.8263	0.7930	0.8556	0.7760	0.7642	0.7946	0.7337	0.7814
0.6		0.7304		0.7246		0.7120		0.7253		0.7123
0.7	0.6974		0.6717		0.6445		0.7245		0.7515	
0.8	0.6515	0.6517	0.6304	0.6469	0.6084	0.6365	0.6738	0.6477	0.6967	0.6368
0.9	0.1265		0.1225		0.1171		0.1322		0.1396	
0.9	0.1339		0.1397		0.1480		0.1254		0.1283	
1.0	0.1639	0.1631	0.1509	0.1708	0.1377	0.1706	0.1819	0.1710	0.2067	0.1669
1.1	0.2061	0.1993	0.1855	0.1941	0.1632	0.1928	0.2346	0.1947	0.2711	0.1889
1.2	0.2375		0.2103		0.1830		0.2750		0.3223	
1.3	0.2842	0.2650	0.2516	0.2703	0.2171	0.2740	0.3241	0.2686	0.3702	0.2696
1.5	0.3315		0.2939		0.2578		0.3774		0.4257	
1.6	0.3586		0.3248		0.2968		0.3993		0.4423	
1.7	0.3809	0.3812	0.3540	0.3825	0.3436	0.3777	0.4142	0.3835	0.4502	0.3773
1.8										
1.9	0.4258	0.4232	0.4412	0.4167	0.4916	0.3972	0.4423	0.4181	0.4656	0.3960
2.0	0.4436		0.5064		0.5238		0.4495		0.4672	
2.1	0.4876	0.4981	0.5450	0.4746	0.5494	0.4067	0.4605	0.5039	0.4732	0.4399
2.1										
2.2	0.5414		0.5678		0.5670		0.4892		0.4751	
2.3	0.5664	0.5648	0.5808	0.5589	0.5815	0.5163	0.5466	0.5664	0.4798	0.5524
2.4	0.5777		0.5892		0.5895		0.5751		0.5227	
2.5	0.5843	0.5848	0.5929	0.5794	0.5944	0.5603	0.5838	0.5842	0.5718	0.5683
2.6	0.5882		0.5951		0.5969		0.5875		0.5841	
2.7	0.5900	0.5906	0.5964	0.5853	0.6016	0.5652	0.5883	0.5878	0.5913	0.5719
2.8	0.5908		0.5956		0.5979		0.5907		0.5906	
2.9	0.5896	0.5918	0.5935	0.5865	0.5956	0.5670	0.5895	0.5886	0.5891	0.5710
3.0	0.5902		0.5928		0.5949		0.5906		0.5917	
3.1	0.5892	0.5893	0.5924	0.5834	0.5942	0.5666	0.5893	0.5851	0.5910	0.5710
3.3	0.5858	0.5843	0.5879	0.5789	0.5897	0.5613	0.5862	0.5815	0.5883	0.5634
3.4	0.5848		0.5866		0.5881		0.5850		0.5879	
3.5		0.5821		0.5772		0.5603		0.5891		0.5616
3.6	0.5811		0.5822		0.5837		0.5809		0.5847	
3.7	0.5788	0.5776	0.5799	0.5727	0.5814	0.5547	0.5798	0.5730	0.5835	0.5568
3.8	0.5771		0.5785		0.5798		0.5787		0.5828	
3.9	0.5771	0.5765	0.5789	0.5714	0.5795	0.5553	0.5775	0.5717	0.5822	0.5561
4.0	0.5759		0.5767		0.5753		0.5778		0.5792	

4.1	0.5745	0.5727	0.5753	0.5678	0.5742	0.5529	0.5764	0.5677	0.5793	0.5537
4.3	0.5718	0.5701	0.5729	0.5655	0.5712	0.5509	0.5745	0.5663	0.5771	0.5512
4.4	0.5703		0.5719		0.5694		0.5730		0.5765	
4.5	0.5691	0.5674	0.5716	0.5629	0.5685	0.5492	0.5733	0.5641	0.5761	0.5504
4.6	0.5694		0.5708		0.5691		0.5724		0.5739	
4.7	0.5696	0.5665	0.5710	0.5628	0.5694	0.5463	0.5730	0.5622	0.5746	0.5484
4.8	0.5673		0.5684		0.5670		0.5703		0.5732	
4.9	0.5664	0.5692	0.5678	0.5615	0.5661	0.5464	0.5698	0.5632	0.5730	0.5526
5.0	0.5670		0.5687		0.5664		0.5706		0.5738	
5.3	0.5649		0.5654		0.5652		0.5692		0.5717	
5.4	0.5661		0.5672		0.5655		0.5695		0.5735	
5.5	0.5635	0.5634	0.5654	0.5589	0.5635	0.5444	0.5668	0.5610	0.5711	0.5478
5.7	0.5664	0.5630	0.5672	0.5589	0.5658	0.5444	0.5698	0.5601	0.5738	0.5474
5.8	0.5652		0.5663		0.5643		0.5689		0.5732	
5.9	0.5649		0.5657		0.5640		0.5680		0.5727	
6.0	0.5634		0.5648		0.5626		0.5665		0.5709	
6.2	0.5637		0.5648		0.5626		0.5674			
6.3	0.5617		0.5633		0.5605		0.5659		0.5700	
6.4	0.5634		0.5645		0.5625		0.5668		0.5718	
6.5	0.5623	0.5639	0.5627	0.5588	0.5614	0.5452	0.5653	0.5614	0.5703	0.5469
6.6	0.5628		0.5642		0.5620		0.5668		0.5715	
6.7	0.5632	0.5652	0.5642	0.5612	0.5620	0.5463	0.5668	0.5619	0.5714	0.5515
6.8	0.5640		0.5651		0.5629		0.5677		0.5717	
6.9	0.5634	0.5616	0.5651	0.5579	0.5626	0.5434	0.5677	0.5592	0.5724	0.5464
7.0	0.5634		0.5645		0.5622		0.5650		0.5694	
7.1	0.5626	0.5634	0.5651	0.5592	0.5623	0.5446	0.5671	0.5609	0.5708	0.5480
7.2	0.5641		0.5648		0.5629		0.5680		0.5720	
7.3	0.5627	0.5626	0.5644	0.5580	0.5616	0.5445	0.5667	0.5592	0.5718	0.5474
7.5	0.5638	0.5621	0.5651	0.5574	0.5623	0.5446	0.5677	0.5591	0.5723	0.5467
7.6	0.5634		0.5645		0.5617		0.5671		0.5720	
7.8	0.5635	0.5580	0.5648	0.5578	0.5623	0.5427	0.5674	0.5568	0.5720	0.5484
8.0	0.5646		0.5684		0.5729		0.5662		0.5628	
8.0	0.5658		0.5672		0.5626		0.5692		0.5741	
8.2	0.5628		0.5642		0.5611		0.5662		0.5718	
8.4	0.5634		0.5648		0.5613		0.5674		0.5721	
8.6	0.5638	0.5644	0.5649	0.5611	0.5617	0.5481	0.5665	0.5624	0.5723	0.5511
8.8	0.5649		0.5660		0.5622		0.5695		0.5739	
9.0	0.5670		0.5681		0.5658		0.5713		0.5754	
9.2	0.5685		0.5696		0.5670		0.5718		0.5768	
9.4	0.5676	0.5657	0.5690	0.5624	0.5661	0.5501	0.5712	0.5641	0.5764	0.5531
9.6	0.5676		0.5690		0.5661		0.5710		0.5760	
9.8	0.5679		0.5693		0.5661		0.5716		0.5751	
10.0	0.5696		0.5710		0.5682		0.5730		0.5779	
10.2	0.5709	0.5705	0.5726	0.5678	0.5703	0.5573	0.5745	0.5730	0.5801	0.5591
10.4	0.5709		0.5731		0.5715		0.5748		0.5798	
10.6	0.5729		0.5761		0.5744		0.5754		0.5810	

Table III (Continued)
 $M_{\infty} = 0.975$

x/d	ρ/ρ_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.3	0.7924	0.7955	0.7609	0.7863	0.7276	0.7737	0.8233	0.7337	0.8526	0.7716
0.3	0.7938	0.7998	0.8249	0.7905	0.8533	0.7790	0.7646	0.7932	0.7303	0.7789
0.6		0.7326		0.7234		0.7144		0.7245		0.7110
0.7	0.6961		0.6695		0.6424		0.7233		0.7501	
0.8	0.6501	0.6529	0.6284	0.6456	0.6059	0.6388	0.6728	0.6476	0.6952	0.6356
0.9	0.1246		0.1195		0.1157		0.1300		0.1375	
0.9	0.1302		0.1378		0.1442		0.1309		0.1264	
1.0	0.1597	0.1635	0.1458	0.1660	0.1353	0.1675	0.1784	0.1672	0.2036	0.1667
1.1	0.1967	0.1988	0.1715	0.1901	0.1589	0.1904	0.2202	0.1918	0.2649	0.1884
1.2	0.2323		0.2023		0.1804		0.2683		0.3184	
1.3	0.2620	0.2635	0.2181	0.2644	0.2055	0.2697	0.2887	0.2645	0.3493	0.2666
1.5	0.3262		0.2867		0.2536		0.3706		0.4190	
1.6	0.3526		0.3173		0.2881		0.3921		0.4345	
1.7	0.3726	0.3754	0.3440	0.3757	0.3251	0.3720	0.4061	0.3739	0.4414	0.3705
1.8										
1.9	0.4155	0.4157	0.4098	0.4063	0.4350	0.3897	0.4327	0.4058	0.4562	0.3876
2.0	0.4301		0.4374		0.4683		0.4395		0.4574	
2.1	0.4455	0.4467	0.4614	0.4316	0.4899	0.3980	0.4488	0.4341	0.4635	0.4007
2.1										
2.2	0.4570		0.4774		0.5047		0.4535		0.4644	
2.3	0.4681	0.4642	0.4904	0.4474	0.5164	0.4057	0.4590	0.4504	0.4673	0.4087
2.4	0.4771		0.4992		0.5264		0.4635		0.4674	
2.5	0.4860	0.4847	0.5067	0.4768	0.5359	0.4382	0.4687	0.4757	0.4699	0.4441
2.6	0.4934		0.5131		0.5436		0.4734		0.4701	
2.7	0.5002	0.4954	0.5177	0.4978	0.5465	0.4700	0.4854	0.4886	0.4732	0.4712
2.8	0.5162		0.5297		0.5559		0.4859		0.4735	
2.9	0.5325	0.5140	0.5390	0.5284	0.5604	0.4907	0.4932	0.5086	0.4750	0.4956
3.0	0.5435		0.5456		0.5649		0.5070		0.4817	
3.1	0.5510	0.5392	0.5524	0.5479	0.5696	0.5217	0.5280	0.5351	0.4982	0.5259
3.3	0.5569	0.5495	0.5584	0.5533	0.5716	0.5344	0.5502	0.5459	0.5542	0.5371
3.4	0.5608		0.5617		0.5736		0.5546		0.5622	
3.5		0.5570		0.5573		0.5415		0.5526		0.5428
3.6	0.5639		0.5645		0.5739		0.5587		0.5670	
3.7	0.5642	0.5597	0.5651	0.5595	0.5731	0.5433	0.5605	0.5543	0.5688	0.5442
3.8	0.5655		0.5662		0.5730		0.5621		0.5699	
3.9	0.5662	0.5639	0.5665	0.5615	0.5730	0.5467	0.5642	0.5584	0.5714	0.5462
4.0	0.5634		0.5646		0.5708		0.5656		0.5707	

4.1	0.5665	0.5654	0.5665	0.5608	0.5710	0.5478	0.5666	0.5587	0.5708	0.5477
4.3	0.5652	0.5660	0.5661	0.5605	0.5706	0.5477	0.5672	0.5597	0.5716	0.5472
4.4	0.5652		0.5664		0.5711		0.5665		0.5713	
4.5	0.5657	0.5655	0.5660	0.5600	0.5693	0.5468	0.5652	0.5593	0.5709	0.5459
4.6	0.5641		0.5647		0.5679		0.5648		0.5702	
4.7	0.5656	0.5620	0.5662	0.5547	0.5683	0.5481	0.5664	0.5535	0.5714	0.5494
4.8	0.5643		0.5640		0.5673		0.5641		0.5695	
4.9	0.5635	0.5669	0.5638	0.5605	0.5665	0.5495	0.5639	0.5624	0.5696	0.5476
5.0	0.5645		0.5639		0.5663		0.5644		0.5703	
5.3	0.5622		0.5622		0.5637		0.5614		0.5671	
5.4	0.5631		0.5628		0.5649		0.5629		0.5692	
5.5	0.5601	0.5615	0.5601	0.5529	0.5622	0.5415	0.5597	0.5557	0.5659	0.5419
5.7	0.5619	0.5592	0.5622	0.5515	0.5643	0.5411	0.5620	0.5534	0.5680	0.5402
5.8	0.5607		0.5605		0.5625		0.5609		0.5672	
5.9	0.5602		0.5593		0.5616		0.5597		0.5663	
6.0	0.5581		0.5578		0.5595		0.5576		0.5639	
6.2	0.5584		0.5578		0.5589		0.5576		0.5642	
6.3	0.5557		0.5554		0.5568		0.5552		0.5630	
6.4	0.5575		0.5569		0.5578		0.5568		0.5631	
6.5	0.5554	0.5570	0.5548	0.5493	0.5559		0.5552	0.5517	0.5612	0.5379
6.6	0.5566		0.5560		0.5571		0.5555		0.5622	
6.7	0.5548	0.5544	0.5548	0.5476	0.5559	0.5398	0.5549	0.5521	0.5615	0.5389
6.8	0.5551		0.5554		0.5559		0.5555		0.5616	
6.9	0.5545	0.5544	0.5548	0.5466	0.5557	0.5356	0.5552	0.5476	0.5610	0.5357
7.0	0.5542		0.5542		0.5547		0.5547		0.5589	
7.1	0.5536	0.5544	0.5542	0.5470	0.5521	0.5364	0.5540	0.5485	0.5601	0.5364
7.2	0.5545		0.5542		0.5548		0.5549		0.5609	
7.3	0.5530	0.5526	0.5536	0.5449	0.5535	0.5362	0.5538	0.5472	0.5602	0.5345
7.5	0.5539	0.5517	0.5539	0.5457	0.5536	0.5360	0.5540	0.5463	0.5606	0.5351
7.6	0.5539		0.5536		0.5530		0.5540		0.5610	
7.8	0.5530	0.5517	0.5530	0.5434	0.5527	0.5368	0.5534	0.5476	0.5597	0.5368
8.0	0.5539		0.5560		0.5628		0.5526		0.5509	
8.0	0.5533		0.5530		0.5545		0.5537		0.5600	
8.2	0.5521		0.5524		0.5506		0.5526		0.5586	
8.4	0.5521		0.5521		0.5511		0.5526		0.5592	
8.6	0.5519	0.5530	0.5518	0.5476	0.5512	0.5380	0.5526	0.5481	0.5594	0.5372
8.8	0.5539		0.5542		0.5523		0.5547		0.5607	
9.0	0.5554		0.5557		0.5554		0.5561		0.5625	
9.2	0.5566		0.5572		0.5565		0.5573		0.5639	
9.4	0.5557	0.5548	0.5563	0.5493	0.5556	0.5405	0.5564	0.5499	0.5632	0.5397
9.6	0.5560		0.5566		0.5557		0.5565		0.5629	
9.8	0.5557		0.5566		0.5557		0.5564		0.5622	
10.0	0.5583		0.5586		0.5589		0.5590		0.5641	
10.2	0.5593	0.5605	0.5596	0.5564	0.5604	0.5483	0.5606	0.5552	0.5666	0.5451
10.4	0.5602		0.5602		0.5619		0.5609		0.5669	
10.6	0.5625		0.5628		0.5646		0.5621		0.5675	

Table III (Continued)
 $M_\infty = 1.0$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.3	0.7910	0.7914	0.7600	0.7869	0.7267	0.7685	0.8226	0.7879	0.8529	0.7684
0.3	0.7940	0.7967	0.8223	0.7912	0.8539	0.7742	0.7615	0.7938	0.7308	0.7773
0.6		0.7283		0.7248		0.7089		0.7244		0.7082
0.7	0.6953		0.6689		0.6418		0.7222		0.7501	
0.8	0.6497	0.6502	0.6282	0.6472	0.6060	0.6346	0.6718	0.6475	0.6957	0.6340
0.9	0.1254	0.1260	0.1220	0.1267	0.1162	0.1238	0.1308	0.1245	0.1392	0.1241
0.9	0.1337		0.1383		0.1468		0.1260		0.1268	
1.0	0.1615	0.1610	0.1495	0.1675	0.1359	0.1670	0.1781	0.1654	0.2038	0.1672
1.1	0.2003	0.1963	0.1833	0.1930	0.1595	0.1902	0.2274	0.1904	0.2671	0.1895
1.2	0.2320		0.2078		0.1794		0.2689		0.3172	
1.3	0.2741	0.2596	0.2475	0.2645	0.2098	0.2674	0.3101	0.2614	0.3577	0.2644
1.5	0.3227		0.2875		0.2501		0.3676		0.4152	
1.6	0.3485		0.3169		0.2842		0.3881		0.4301	
1.7	0.3688	0.3718	0.3430	0.3719	0.3197	0.3672	0.4015	0.3706	0.4371	0.3654
1.8										
1.9	0.4097	0.4072	0.4035	0.4011	0.4216	0.3839	0.4264	0.4003	0.4508	0.3822
2.0	0.4230		0.4281		0.4531		0.4337		0.4527	
2.1	0.4380	0.4383	0.4480	0.4252	0.4716	0.3909	0.4432	0.4274	0.4564	0.3940
2.1										
2.2	0.4485		0.4664		0.4870		0.4466		0.4590	
2.3	0.4597	0.4544	0.4776	0.4409	0.4956	0.3975	0.4524	0.4419	0.4610	0.3998
2.4	0.4666		0.4864		0.5011		0.4552		0.4614	
2.5	0.4746	0.4723	0.4922	0.4610	0.5051	0.4193	0.4605	0.4637	0.4637	0.4274
2.6	0.4800		0.4955		0.5067		0.4640		0.4636	
2.7	0.4844	0.4808	0.4953	0.4726	0.5078	0.4477	0.4691	0.4749	0.4681	0.4520
2.8	0.4895		0.5013		0.5084		0.4738		0.4663	
2.9	0.4911	0.4932	0.5005	0.4860	0.5069	0.4652	0.4778	0.4878	0.4661	0.4691
3.0	0.4953		0.5024		0.5075		0.4848		0.4693	
3.1	0.4988	0.4983	0.5038	0.4901	0.5092	0.4705	0.4913	0.4919	0.4746	0.4731
3.3	0.5017	0.4998	0.5040	0.4926	0.5083	0.4713	0.4983	0.4944	0.4913	0.4747
3.4	0.5030		0.5054		0.5090		0.5015		0.4987	
3.5		0.5046		0.4974		0.4782		0.4992		0.4816
3.6	0.5062		0.5076		0.5097		0.5055		0.5072	
3.7	0.5063	0.5048	0.5081		0.5105	0.4795	0.5066		0.5085	0.4825
3.8	0.5075		0.5092		0.5116		0.5077		0.5106	
3.9	0.5092	0.5077	0.5113	0.5004	0.5134	0.4842	0.5095	0.5023	0.5135	0.4850
4.0	0.5083		0.5118		0.5121		0.5094		0.5131	

4.1	0.5124	0.5094	0.5154	0.5022	0.5157	0.4868	0.5139	0.5053	0.5174	0.4884
4.3	0.5099	0.5089	0.5179	0.5061	0.5135	0.4882	0.5114	0.5048	0.5163	0.4899
4.4	0.5106		0.5219		0.5144		0.5117		0.5166	
4.5	0.5117	0.5117	0.5205	0.5049	0.5193	0.4901	0.5111	0.5072	0.5186	0.4909
4.6	0.5110		0.5313		0.5176		0.5143		0.5186	
4.7	0.5133	0.5164	0.5338	0.5105	0.5205	0.4960	0.5159	0.5100	0.5201	0.4995
4.8	0.5124		0.5367		0.5177		0.5174		0.5190	
4.9	0.5143	0.5246	0.5391	0.5102	0.5202	0.4971	0.5247	0.5169	0.5207	0.5002
5.0	0.5211		0.5397		0.5272		0.5273		0.5259	
5.3	0.5367		0.5433		0.5396		0.5436		0.5451	
5.4	0.5406		0.5468		0.5425		0.5456		0.5493	
5.5	0.5409	0.5434	0.5448	0.5363	0.5425	0.5223	0.5444	0.5385	0.5481	0.5245
5.7	0.5468	0.5438	0.5486	0.5385	0.5487	0.5250	0.5498	0.5398	0.5532	0.5263
5.8	0.5462		0.5484		0.5482		0.5486		0.5526	
5.9	0.5466		0.5481		0.5482		0.5493		0.5533	
6.0	0.5459		0.5472		0.5476		0.5477		0.5532	
6.2	0.5477		0.5480		0.5493		0.5495		0.5541	
6.3	0.5459		0.5466		0.5488		0.5480		0.5520	
6.4	0.5487		0.5490		0.5498		0.5502		0.5545	
6.5	0.5468	0.5488	0.5471	0.5430	0.5485	0.5302	0.5483	0.5448	0.5532	0.5580
6.6	0.5486		0.5478		0.5494		0.5498		0.5544	
6.7	0.5480	0.5487	0.5477	0.5456	0.5484	0.5317	0.5497	0.5469	0.5543	0.5335
6.8	0.5486		0.5484		0.5488		0.5498		0.5553	
6.9	0.5483	0.5466	0.5478	0.5430	0.5488	0.5285	0.5502	0.5439	0.5550	0.5307
7.0	0.5484		0.5472		0.5486		0.5496		0.5524	
7.1	0.5477	0.5480	0.5474	0.5444	0.5476	0.5306	0.5492	0.5444	0.5540	0.5316
7.2	0.5485		0.5474		0.5484		0.5500		0.5548	
7.3	0.5479	0.5461	0.5461	0.5425	0.5475	0.5290	0.5492	0.5425	0.5541	0.5303
7.5	0.5483	0.5466	0.5468	0.5435	0.5470	0.5280	0.5495	0.5439	0.5546	0.5293
7.6	0.5486		0.5466		0.5479		0.5495		0.5547	
7.8	0.5468	0.5453	0.5453	0.5417	0.5457	0.5257	0.5482	0.5430	0.5536	0.5338
8.0	0.5471		0.5483		0.5558		0.5504		0.5543	
8.0	0.5477		0.5453		0.5455		0.5495		0.5543	
8.2	0.5454		0.5439		0.5435		0.5460		0.5515	
8.4	0.5451		0.5439		0.5432		0.5463		0.5515	
8.6	0.5441	0.5451	0.5426	0.5416	0.5422	0.5286	0.5453	0.5416	0.5504	0.5290
8.8	0.5457		0.5451		0.5438		0.5472		0.5524	
9.0	0.5454		0.5445		0.5441		0.5469		0.5527	
9.2	0.5468		0.5459		0.5449		0.5477		0.5534	
9.4	0.5456	0.5434	0.5453	0.5412	0.5443	0.5285	0.5477	0.5412	0.5528	0.5294
9.6	0.5457		0.5455		0.5447		0.5473		0.5522	
9.8	0.5445		0.5445		0.5435		0.5460		0.5515	
10.0	0.5479		0.5494		0.5472		0.5500		0.5554	
10.2	0.5489	0.5495	0.5508	0.5469	0.5494	0.5352	0.5516	0.5465	0.5565	0.5361
10.4	0.5504		0.5525		0.5515		0.5528		0.5580	
10.6	0.5528		0.5558		0.5544		0.5546		0.5592	

Table III (Continued)
 $M_\infty = 1.025$

x/H	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.3	0.7986	0.7889	0.7585	0.7829	0.7260	0.7647	0.8227	0.7846	0.8523	0.7696
0.3	0.7937	0.7940	0.8255	0.7873	0.8532	0.7708	0.7619	0.7905	0.7281	0.7776
0.6		0.7258		0.7209		0.7057		0.7213		0.7081
0.7	0.6951		0.6683		0.6413		0.7225		0.7492	
0.8	0.6494	0.6482	0.6273	0.6436	0.6055	0.6316	0.6722	0.6439	0.6941	0.6343
0.9	0.1253	0.1244	0.1192	0.1243	0.1163	0.1204	0.1321	0.1247	0.1371	0.1214
0.9	0.1358		0.1437		0.1479		0.1303		0.1220	
1.0	0.1604	0.1587	0.1437	0.1648	0.1361	0.1637	0.1792	0.1653	0.2008	0.1643
1.1	0.1951	0.1935	0.1651	0.1907	0.1556	0.1878	0.2262	0.1907	0.2604	0.1866
1.2	0.2304		0.1963		0.1785		0.2695		0.3147	
1.3	0.2591	0.2566	0.2090	0.2614	0.2018	0.2629	0.3043	0.2598	0.3402	0.2612
1.5	0.3214		0.2798		0.2485		0.3662		0.4129	
1.6	0.3471		0.3102		0.2826		0.3869		0.4277	
1.7	0.3664	0.3651	0.3359	0.3678	0.3170	0.3604	0.3999	0.3664	0.4340	0.3608
1.8										
1.9	0.4067	0.4031	0.3996	0.3955	0.4157	0.3776	0.4244	0.3959	0.4471	0.3784
2.0	0.4192		0.4233		0.4478		0.4309		0.4498	
2.1	0.4312	0.4311	0.4441	0.4195	0.4684	0.3837	0.4401	0.4225	0.4555	0.3903
2.1										
2.2	0.4439		0.4618		0.4809		0.4441		0.4555	
2.3	0.4536	0.4476	0.4729	0.4321	0.4896	0.3903	0.4494	0.4359	0.4576	0.3942
2.4	0.4612		0.4796		0.4756		0.4537		0.4584	
2.5	0.4687	0.4652	0.4857	0.4531	0.4984	0.4100	0.4569	0.4569	0.4593	0.4193
2.6	0.4732		0.4888		0.5000		0.4602		0.4595	
2.7	0.4792	0.4714	0.4960	0.4634	0.5016	0.4363	0.4651	0.4666	0.4614	0.4429
2.8	0.4819		0.4941		0.5016		0.4686		0.4617	
2.9	0.4833	0.4828	0.4932	0.4767	0.4993	0.4556	0.4715	0.4786	0.4613	0.4599
3.0	0.4866		0.4941		0.5002		0.4770		0.4639	
3.1	0.4901	0.4861	0.4960	0.4799	0.5015	0.4596	0.4825	0.4823	0.4671	0.4648
3.3	0.4915	0.4877	0.4955	0.4806	0.4998	0.4613	0.4890	0.4829	0.4800	0.4656
3.4	0.4928		0.4959		0.4996		0.4921		0.4873	
3.5		0.4924		0.4854		0.4651		0.4881		0.4734
3.6	0.4947		0.4968		0.4999		0.4954		0.4954	
3.7	0.4946	0.4918	0.4964	0.4839	0.4992	0.4669	0.4956	0.4866	0.4980	0.4698
3.8	0.4949		0.4964		0.4999		0.4965		0.4995	
3.9	0.4967	0.4925	0.4985	0.4876	0.5007	0.4689	0.4986	0.4895	0.5000	0.4727
4.0	0.4954		0.4948		0.4979		0.4961		0.4999	

4.1	0.4987	0.4945	0.4984	0.4884	0.5022	0.4714	0.4991	0.4902	0.5060	0.4743
4.3	0.4955	0.4941	0.4953	0.4888	0.4978	0.4715	0.4963	0.4897	0.5010	0.4745
4.4	0.4956		0.4951		0.4982		0.4963		0.5017	
4.5	0.4949	0.4924	0.4953	0.4880	0.4975	0.4717	0.4965	0.4903	0.5001	0.4742
4.6	0.4946		0.4940		0.4974		0.4968		0.5015	
4.7	0.4956	0.4939	0.4951	0.4868	0.4979	0.4767	0.4975	0.4914	0.5028	0.4783
4.8	0.4944		0.4939		0.4967		0.4954		0.5014	
4.9	0.4945	0.4941	0.4937	0.4910	0.4968	0.4760	0.4955	0.4933	0.5015	0.4771
5.0	0.4955		0.4947		0.4977		0.4968		0.5021	
5.3	0.4936		0.4937		0.4968		0.4952		0.5020	
5.4	0.4951		0.4945		0.4976		0.4967		0.5029	
5.5	0.4931	0.4921	0.4925	0.4868	0.4956	0.4737	0.4950	0.4891	0.5014	0.4748
5.7	0.4948	0.4921	0.4957	0.4868	0.4994	0.4746	0.4973	0.4882	0.5047	0.4744
5.8	0.4944		0.4945		0.4982		0.4963		0.5031	
5.9	0.4943		0.4947		0.4990		0.4962		0.5037	
6.0	0.4926		0.4939		0.4982		0.4946		0.5020	
6.2	0.4927		0.4954		0.4988		0.4946		0.5026	
6.3	0.4905		0.4935		0.4969		0.4933		0.5010	
6.4	0.4927		0.4963		0.4992		0.4955		0.5036	
6.5		0.4996		0.4876		0.4767		0.4925		0.4787
6.6	0.4917		0.4968		0.4984		0.4951		0.5043	
6.7	0.4902	0.4967	0.4958	0.4919	0.4971	0.4789	0.4959	0.4955	0.5036	0.4805
6.8	0.4911		0.4971		0.4979		0.4981		0.5055	
6.9	0.4916	0.4987	0.4971	0.4893	0.4969	0.4762	0.5001	0.4925	0.5058	0.4787
7.0	0.4912		0.4969		0.4967		0.5018		0.5075	
7.1	0.4930	0.4989	0.4975	0.4913	0.4962	0.4785	0.5029	0.4950	0.5082	0.4788
7.2	0.4944		0.4983		0.4966		0.5048		0.5092	
7.3	0.4966	0.4971	0.4985	0.4909	0.4968	0.4792	0.5046	0.4950	0.5088	0.4772
7.5	0.4990	0.4958	0.5002	0.4936	0.5006	0.4791	0.5047	0.4942	0.5094	0.4780
7.6	0.4997		0.5004		0.4990		0.5043		0.5088	
7.8	0.5026	0.4966	0.5027	0.4976	0.5025	0.4843	0.5033	0.4954	0.5086	0.4841
8.0	0.5037		0.5040		0.5119		0.5085		0.5218	
8.0	0.5046		0.5085		0.5089		0.5047		0.5109	
8.2	0.5041		0.5200		0.5228		0.5036		0.5105	
8.4	0.5076		0.5311		0.5336		0.5194		0.5380	
8.6	0.5182	0.5449	0.5382	0.5259	0.5387	0.5297	0.5420	0.5396	0.5506	0.5277
8.8	0.5382		0.5452		0.5441		0.5502		0.5559	
9.0	0.5469		0.5472		0.5459		0.5525		0.5568	
9.2	0.5507		0.5473		0.5471		0.5525		0.5576	
9.4	0.5509	0.5456	0.5474	0.5434	0.5467	0.5298	0.5518	0.5442	0.5566	0.5354
9.6	0.5513		0.5471		0.5461		0.5513		0.5559	
9.8	0.5492		0.5454		0.5444		0.5489		0.5538	
10.0	0.5467		0.5500		0.5446		0.5514		0.5594	
10.2	0.5470	0.5466	0.5486	0.5471	0.5461	0.5319	0.5515	0.5466	0.5581	0.5374
10.4	0.5476		0.5498		0.5478		0.5518		0.5593	
10.6	0.5485		0.5524		0.5490		0.5524		0.5596	

Table III (Continued)
 $M_\infty = 1.05$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.3	0.7894	0.7931	0.7574	0.7830	0.7246	0.7659	0.8216	0.7877	0.8502	0.7680
0.3	0.7916	0.7977	0.8211	0.7878	0.8497	0.7718	0.7582	0.7926	0.7245	0.7760
0.6		0.7294		0.7203		0.7064		0.7246		0.7069
0.7	0.6937		0.6669		0.6393		0.7210		0.7475	
0.8	0.6483	0.6519	0.6267	0.6443	0.6038	0.6331	0.6706	0.6470	0.6926	0.6323
0.9	0.1252		0.1219		0.1156		0.1319		0.1376	
0.9	0.1332		0.1381		0.1401		0.1251		0.1202	
1.0	0.1592	0.1596	0.1478	0.1647	0.1336	0.1644	0.1783	0.1649	0.1999	0.1609
1.1	0.1973	0.1951	0.1810	0.1919	0.1587	0.1871	0.2298	0.1913	0.2631	0.1838
1.2	0.2296		0.2050		0.1783		0.2680		0.3124	
1.3	0.2686	0.2567	0.2450	0.2601	0.2125	0.2619	0.3150	0.2588	0.3508	0.2568
1.5	0.3175		0.2821		0.2449		0.3619		0.4078	
1.6	0.3426		0.3101		0.2786		0.3817		0.4221	
1.7	0.3617	0.3629	0.3354	0.3646	0.3123	0.3578	0.3944	0.3618	0.4280	0.3547
1.8										
1.9	0.4006	0.3987	0.3921	0.3914	0.4039	0.3744	0.4176	0.3914	0.4410	0.3714
2.0	0.4133		0.4155		0.4361		0.4252		0.4438	
2.1	0.4273	0.4273	0.4372	0.4149	0.4586	0.3819	0.4346	0.4164	0.4495	0.3834
2.1										
2.2	0.4367		0.4518		0.4704		0.4374		0.4488	
2.3	0.4462	0.4420	0.4636	0.4261	0.4788	0.3858	0.4427	0.4294	0.4509	0.3873
2.4	0.4534		0.4703		0.4841		0.4446		0.4525	
2.5	0.4601	0.4588	0.4770	0.4458	0.4881	0.4028	0.4494	0.4492	0.4529	0.4076
2.6	0.4652		0.4802		0.4904		0.4521		0.4532	
2.7	0.4695	0.4655	0.4810	0.4569	0.4917	0.4282	0.4565	0.4581	0.4552	0.4309
2.8	0.4742		0.4862		0.4933		0.4601		0.4553	
2.9	0.4753	0.4765	0.4860	0.4697	0.4932	0.4483	0.4623	0.4709	0.4544	0.4497
3.0	0.4796		0.4881		0.4932		0.4683		0.4569	
3.1	0.4818	0.4803	0.4894	0.4739	0.4936	0.4546	0.4735	0.4747	0.4589	0.4556
3.3	0.4845	0.4831	0.4889	0.4763	0.4923	0.4486	0.4801	0.4775	0.4683	0.4577
3.4	0.4861		0.4896		0.4920		0.4835		0.4757	
3.5		0.4875		0.4807		0.4613		0.4815		0.4629
3.6	0.4891		0.4913		0.4899		0.4883		0.4861	
3.7	0.4893	0.4881	0.4917	0.4809	0.4930		0.4891	0.4825	0.4899	
3.8	0.4906		0.4925		0.4935		0.4906		0.4924	
3.9	0.4926	0.4908	0.4949	0.4853	0.4938	0.4666	0.4924	0.4852	0.4936	0.4659
4.0	0.4919		0.4929		0.4948		0.4928		0.4952	

4.1	0.4959	0.4921	0.4975	0.4863	0.4985	0.4702	0.4969	0.4866	0.4990	0.4695
4.3	0.4930	0.4937	0.4940	0.4877	0.4956	0.4709	0.4946	0.4894	0.4969	0.4712
4.4	0.4948		0.4950		0.4974		0.4949		0.4993	
4.5	0.4943	0.4942	0.4965	0.4891	0.4963	0.4733	0.4944	0.4890	0.4976	0.4731
4.6	0.4944		0.4961		0.4974		0.4966		0.5005	
4.7	0.4964	0.4959	0.4980	0.4867	0.4993	0.4766	0.4968	0.4911	0.5015	0.4774
4.8	0.4945		0.4973		0.4980		0.4964		0.5011	
4.9	0.4953	0.5000	0.4985	0.4958	0.4988	0.4790	0.4975	0.4952	0.5017	0.4806
5.0	0.4979		0.5001		0.4995		0.4979		0.5023	
5.3	0.4963		0.4991		0.4998		0.5009		0.5041	
5.4	0.4993		0.5012		0.4998		0.5014		0.5065	
5.5	0.4984	0.4969	0.4991	0.4932	0.4980	0.4765	0.5003	0.4936	0.5050	0.4782
5.7	0.5035	0.4987	0.5009	0.4932	0.5001	0.4766	0.5044	0.4940	0.5083	0.4777
5.8	0.5025		0.5003		0.4983		0.5041		0.5071	
5.9	0.5022		0.4997		0.4980		0.5029		0.5071	
6.0	0.5011		0.4979		0.4956		0.5002		0.5047	
6.2	0.5011		0.4971		0.4948		0.4994		0.5047	
6.3	0.4984		0.4955		0.4929		0.4970		0.5026	
6.4	0.5001		0.4966		0.4934		0.4978		0.5035	
6.5	0.4969	0.5018	0.4944	0.4918	0.4912	0.4729	0.4955	0.4980	0.5026	0.4745
6.6	0.4984		0.4943		0.4920		0.4946		0.5059	
6.7	0.4964	0.4974	0.4933	0.4876	0.4901	0.4715	0.4922	0.4932	0.5050	0.4757
6.8	0.4963		0.4935		0.4906		0.4928		0.5044	
6.9	0.4948	0.4955	0.4916	0.4838	0.4899	0.4702	0.4910	0.4922	0.5035	0.4709
7.0	0.4929		0.4888		0.4889		0.4909		0.5017	
7.1	0.4895	0.4941	0.4900	0.4840	0.4886	0.4699	0.4884	0.4902	0.5005	0.4702
7.2	0.4914		0.4895		0.4881		0.4882		0.4994	
7.3	0.4900	0.4898	0.4877	0.4795	0.4866	0.4660	0.4861	0.4852	0.4980	0.4676
7.5	0.4874	0.4851	0.4867	0.4760	0.4856	0.4637	0.4851	0.4808	0.4958	0.4630
7.6	0.4852		0.4857		0.4840		0.4847		0.4939	
7.8	0.4834	0.4823	0.4833	0.4750	0.4828	0.4626	0.4820	0.4794	0.4914	0.4624
8.0	0.4815		0.4840		0.4912		0.4795		0.4800	
8.0	0.4804		0.4835		0.4824		0.4828		0.4896	
8.2	0.4783		0.4809		0.4783		0.4777		0.4861	
8.4	0.4769		0.4781		0.4773		0.4785		0.4851	
8.6	0.4755	0.4770	0.4766	0.4721	0.4753	0.4587	0.4780	0.4728	0.4832	0.4593
8.8	0.4761		0.4775		0.4752		0.4804		0.4836	
9.0	0.4773		0.4796		0.4779		0.4831		0.4849	
9.2	0.4785		0.4808		0.4779		0.4840		0.4863	
9.4	0.4787	0.4749	0.4795	0.4730	0.4760	0.4577	0.4832	0.4707	0.4858	0.4588
9.6	0.4786		0.4785		0.4750		0.4838		0.4853	
9.8	0.4768		0.4779		0.4732		0.4801		0.4843	
10.0	0.4773		0.4784		0.4738		0.4806		0.4876	
10.2	0.4769	0.4798	0.4786	0.4757	0.4739	0.4619	0.4802	0.4743	0.4873	0.4638
10.4	0.4760		0.4795		0.4742		0.4797		0.4871	
10.6	0.4778		0.4872		0.4775		0.4800		0.4862	

Table III (Continued)
 $M_{\infty}=1.1$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.3	0.7814	0.7844	0.7506	0.7759	0.7169	0.7604	0.8158	0.7785	0.8447	0.7521
0.3	0.7840	0.7886	0.8164	0.7812	0.8460	0.7665	0.7522	0.7845	0.7181	0.7615
0.6		0.7218		0.7134		0.7021		0.7157		0.6918
0.7	0.6875		0.6612		0.6334		0.7164		0.7429	
0.8	0.6432	0.6452	0.6218	0.6388	0.5990	0.6295	0.6669	0.6412	0.6895	0.6192
0.9	0.1744		0.1189		0.1148		0.1295		0.1370	
0.9	0.1326		0.1358		0.1411		0.1239		0.1261	
1.0	0.1557	0.1544	0.1411	0.1591	0.1317	0.1624	0.1737	0.1602	0.1966	0.1511
1.1	0.1878	0.1870	0.1641	0.1882	0.1517	0.1847	0.2177	0.1900	0.2517	0.1725
1.2	0.2223		0.1933		0.1731		0.2591		0.3022	
1.3	0.2500	0.2474	0.2101	0.2504	0.2006	0.2528	0.2867	0.2512	0.3262	0.2410
1.5	0.3010		0.2673		0.2352		0.3474		0.3898	
1.6	0.3261		0.2947		0.2657		0.3679		0.4030	
1.7	0.3435	0.3436	0.3170	0.3468	0.2965	0.3404	0.3793	0.3463	0.4083	0.3350
1.8										
1.9	0.3782	0.3757	0.3704	0.3731	0.3758	0.3584	0.4022	0.3735	0.4200	0.3490
2.0	0.3911		0.3917		0.4070		0.4095		0.4227	
2.1	0.4038	0.4021	0.4121	0.3950	0.4287	0.3633	0.4174	0.3962	0.4268	0.3605
2.1										
2.2	0.4124		0.4263		0.4435		0.4209		0.4271	
2.3	0.4210	0.4162	0.4379	0.4053	0.4532	0.3671	0.4250	0.4073	0.4287	0.3616
2.4	0.4283		0.4452		0.4588		0.4282		0.4289	
2.5	0.4338	0.4322	0.4517	0.4216	0.4629	0.3772	0.4318	0.4244	0.4305	0.3771
2.6	0.4386		0.4551		0.4652		0.4340		0.4300	
2.7	0.4445	0.4380	0.4594	0.4300	0.4681	0.3937	0.4376	0.4329	0.4346	0.3967
2.8	0.4469		0.4599		0.4690		0.4397		0.4319	
2.9	0.4484	0.4493	0.4603	0.4428	0.4695	0.4175	0.4411	0.4461	0.4311	0.4181
3.0	0.4517		0.4625		0.4695		0.4447		0.4327	
3.1	0.4542	0.4536	0.4637	0.4471	0.4701	0.4256	0.4484	0.4508	0.4335	0.4227
3.3	0.4552	0.4537	0.4639	0.4486	0.4685	0.4298	0.4537	0.4411	0.4367	0.4274
3.4	0.4562		0.4636		0.4680		0.4560		0.4398	
3.5		0.4590		0.4538		0.4435		0.4566		0.4330
3.6	0.4576		0.4635		0.4672		0.4610		0.4488	
3.7	0.4575	0.4574	0.4641	0.4536	0.4675		0.4621	0.4554	0.4531	
3.8	0.4582		0.4645		0.4674		0.4643		0.4574	
3.9	0.4591	0.4583	0.4663	0.4585	0.4677	0.4377	0.4660	0.4586	0.4621	0.4352
4.0	0.4610		0.4661		0.4683		0.4658		0.4595	

4.1	0.4635	0.4583	0.4693	0.4594	0.4715	0.4395	0.4699	0.4603	0.4642	0.4374
4.3	0.4639	0.4639	0.4684	0.4609	0.4686	0.4429	0.4693	0.4632	0.4657	0.4319
4.4	0.4645		0.4687		0.4686		0.4706		0.4672	
4.5	0.4632	0.4635	0.4667	0.4627	0.4660	0.4426	0.4686	0.4650	0.4684	0.4365
4.6	0.4657		0.4678		0.4674		0.4699		0.4672	
4.7	0.4661	0.4683	0.4688	0.4649	0.4684	0.4463	0.4706	0.4636	0.4693	0.4412
4.8	0.4654		0.4670		0.4680		0.4688		0.4681	
4.9	0.4662	0.4724	0.4666	0.4649	0.4673	0.4487	0.4690	0.4650	0.4678	0.4413
5.0	0.4664		0.4670		0.4675		0.4697		0.4690	
5.3	0.4640		0.4652		0.4665		0.4676		0.4640	
5.4	0.4652		0.4649		0.4692		0.4694		0.4658	
5.5	0.4625	0.4662	0.4631	0.4570	0.4671	0.4463	0.4670	0.4615	0.4649	0.4380
5.7	0.4631	0.4640	0.4658	0.4557	0.4695	0.4450	0.4691	0.4607	0.4729	0.4371
5.8	0.4622		0.4649		0.4677		0.4679		0.4717	
5.9	0.4615		0.4654		0.4674		0.4675		0.4732	
6.0	0.4598		0.4643		0.4656		0.4652		0.4741	
6.2	0.4610		0.4646		0.4662		0.4647		0.4744	
6.3	0.4610		0.4580		0.4665		0.4625		0.4723	
6.4	0.4638		0.4657		0.4676		0.4642		0.4735	
6.5	0.4625	0.4635	0.4655	0.4596	0.4674	0.4422	0.4629	0.4592	0.4711	0.4432
6.6	0.4636		0.4675		0.4683		0.4655		0.4729	
6.7	0.4631	0.4645	0.4679	0.4616	0.4692	0.4465	0.4659	0.4621	0.4711	0.4427
6.8	0.4654		0.4702		0.4713		0.4685		0.4711	
6.9	0.4672	0.4639	0.4702	0.4636	0.4710	0.4444	0.4687	0.4633	0.4705	0.4432
7.0	0.4677		0.4714		0.4709		0.4687		0.4705	
7.1	0.4678	0.4692	0.4717	0.4658	0.4683	0.4477	0.4726	0.4672	0.4687	0.4453
7.2	0.4720		0.4718		0.4704		0.4759		0.4687	
7.3	0.4725	0.4711	0.4710	0.4655	0.4693	0.4482	0.4762	0.4660	0.4674	0.4443
7.5	0.4815	0.4697	0.4723	0.4663	0.4698	0.4492	0.4780	0.4663	0.4675	0.4431
7.6	0.4740		0.4714		0.4686		0.4777		0.4672	
7.8	0.4738	0.4742	0.4709	0.4649	0.4698	0.4504	0.4777	0.4699	0.4690	0.4412
8.0	0.4729		0.4747		0.4802		0.4721		0.4607	
8.0	0.4744		0.4708		0.4686		0.4756		0.4714	
8.2	0.4695		0.4687		0.4659		0.4717		0.4687	
8.4	0.4692		0.4677		0.4664		0.4714		0.4705	
8.6	0.4688	0.4720	0.4671	0.4624	0.4646	0.4531	0.4692	0.4652	0.4708	0.4440
8.8	0.4704		0.4681		0.4658		0.4708		0.4747	
9.0	0.4740		0.4696		0.4679		0.4726		0.4795	
9.2	0.4755		0.4702		0.4671		0.4729		0.4794	
9.4	0.4735	0.4684	0.4679	0.4614	0.4669	0.4498	0.4715	0.4624	0.4752	0.4437
9.6	0.4719		0.4668		0.4676		0.4708		0.4729	
9.8	0.4710		0.4660		0.4683		0.4693		0.4735	
10.0	0.4717		0.4674		0.4634		0.4698		0.4717	
10.2	0.4717	0.4747	0.4687	0.4629	0.4665	0.4497	0.4705	0.4657	0.4738	0.4564
10.4	0.4714		0.4711		0.4683		0.4705		0.4773	
10.6	0.4723		0.4723		0.4695		0.4723		0.4821	

Table III (Continued)
 $M_{\infty} = 1.15$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.3	0.7753	0.7790	0.7411	0.7695	0.7045	0.7461	0.8078	0.7687	0.8392	0.7512
0.3	0.7769	0.7830	0.7108	0.7746	0.8379	0.7517	0.7373	0.7742	0.7062	0.7595
0.6		0.7172		0.7075		0.6880		0.7066		0.6921
0.7	0.6820		0.6539		0.6246		0.7096		0.7377	
0.8	0.6389	0.6432	0.6158	0.6348	0.5925	0.6183	0.6613	0.6348	0.6849	0.6221
0.9	0.1233	0.1257	0.1193	0.1220	0.1153	0.1168	0.1305	0.1231	0.1357	0.1183
0.9	0.1316		0.1347		0.1418		0.1228		0.1224	
1.0	0.1535	0.1552	0.1424	0.1555	0.1324	0.1549	0.1735	0.1555	0.1925	0.1561
1.1	0.1831	0.1856	0.1708	0.1836	0.1536	0.1771	0.2218	0.1849	0.2477	0.1770
1.2	0.2151		0.1934		0.1707		0.2547		0.2930	
1.3	0.2424	0.2409	0.2272	0.2394	0.2018	0.2402	0.3001	0.2388	0.3273	0.2395
1.5	0.2884		0.2565		0.2257		0.3302		0.3736	
1.6	0.3110		0.2811		0.2506		0.3487		0.3871	
1.7	0.3276	0.3294	0.3007	0.3274	0.2789	0.3195	0.3595	0.3275	0.3921	0.3217
1.8										
1.9	0.3588	0.3562	0.3443	0.3506	0.3410	0.3329	0.3774	0.3498	0.4035	0.3356
2.0	0.3705		0.3633		0.3686		0.3844		0.4070	
2.1	0.3791	0.3808	0.3789	0.3721	0.3918	0.3422	0.3917	0.3717	0.4110	0.3467
2.1										
2.2	0.3892		0.3946		0.4066		0.3943		0.4109	
2.3	0.3975	0.3932	0.4065	0.3806	0.4174	0.3420	0.3985	0.3801	0.4128	0.3469
2.4	0.4049		0.4148		0.4233		0.4017		0.4127	
2.5	0.4109	0.4069	0.4212	0.3933	0.4279	0.3499	0.4050	0.3955	0.4137	0.3566
2.6	0.4149		0.4249		0.4308		0.4066		0.4130	
2.7	0.4193	0.4136	0.4258	0.4022	0.4352	0.3583	0.4109	0.4040	0.4143	0.3664
2.8	0.4232		0.4313		0.4367		0.4117		0.4150	
2.9	0.4244	0.4250	0.4325	0.4164	0.4369	0.3802	0.4122	0.4176	0.4134	0.3902
3.0	0.4277		0.4359		0.4390		0.4170		0.4159	
3.1	0.4302	0.4293	0.4395	0.4211	0.4393	0.3940	0.4207	0.4232	0.4173	0.4005
3.3	0.4324	0.4330	0.4418	0.4234	0.4389	0.4010	0.4240	0.4269	0.4208	0.4057
3.4	0.4334		0.4424		0.4378		0.4268		0.4227	
3.5		0.4379		0.4305		0.4088		0.4331		0.4162
3.6	0.4371		0.4419		0.4367		0.4321		0.4266	
3.7	0.4400	0.4362	0.4449	0.4307	0.4372		0.4335	0.4319	0.4292	0.4143
3.8	0.4429		0.4457		0.4383		0.4354		0.4323	
3.9	0.4438	0.4391	0.4466	0.4339	0.4410	0.4133	0.4363	0.4342	0.4385	0.4181
4.0	0.4412		0.4436		0.4446		0.4376		0.4413	

4.1	0.4432	0.4398	0.4481	0.4360	0.4455	0.4141	0.4420	0.4350	0.4466	0.4214
4.3	0.4444	0.4418	0.4469	0.4358	0.4443	0.4167	0.4399	0.4348	0.4484	0.4201
4.4	0.4450		0.4484		0.4443		0.4414		0.4493	
4.5	0.4463	0.4410	0.4490	0.4390	0.4423	0.4190	0.4456	0.4375	0.4466	0.4171
4.6	0.4471		0.4496		0.4422		0.4444		0.4475	
4.7	0.4489	0.4436	0.4496	0.4393	0.4411	0.4170	0.4474	0.4356	0.4502	0.4145
4.8	0.4495		0.4472		0.4408		0.4450		0.4508	
4.9	0.4501	0.4499	0.4472	0.4371	0.4413	0.4180	0.4459	0.4406	0.4532	0.4205
5.0	0.4492		0.4452		0.4411		0.4500		0.4558	
5.3	0.4418		0.4451		0.4399		0.4497		0.4532	
5.4	0.4424		0.4442		0.4417		0.4539		0.4540	
5.5	0.4385	0.4459	0.4410	0.4305	0.4387	0.4111	0.4518	0.4345	0.4502	0.4181
5.7	0.4364	0.4410	0.4419	0.4279	0.4407	0.4107	0.4518	0.4323	0.4532	0.4172
5.8	0.4352		0.4389		0.4390		0.4474		0.4523	
5.9	0.4345		0.4388		0.4392		0.4453		0.4517	
6.0	0.4325		0.4377		0.4366		0.4405		0.4469	
6.2	0.4346		0.4389		0.4369		0.4364		0.4434	
6.3	0.4334		0.4371		0.4351		0.4283		0.4225	
6.4	0.4354		0.4385		0.4368		0.4321		0.4409	
6.5	0.4343	0.4334	0.4359	0.4300	0.4470	0.4124	0.4509	0.4282	0.4505	0.4144
6.6	0.4367		0.4376		0.4372		0.4310		0.4380	
6.7	0.4353	0.4362	0.4369	0.4316	0.4352	0.4132	0.4315	0.4306	0.4369	0.4170
6.8	0.4364		0.4386		0.4354		0.4337		0.4380	
6.9	0.4372	0.4361	0.4376	0.4336	0.4351	0.4128	0.4340	0.4331	0.4380	0.4166
7.0	0.4375		0.4388		0.4344		0.4360		0.4394	
7.1	0.4367	0.4386	0.4383	0.4366	0.4328	0.4170	0.4361	0.4365	0.4419	0.4231
7.2	0.4404		0.4390		0.4335		0.4383		0.4455	
7.3	0.4416	0.4371	0.4377	0.4364	0.4337	0.4175	0.4391	0.4350	0.4475	0.4249
7.5	0.4415	0.4346	0.4389	0.4335	0.4360	0.4162	0.4423	0.4325	0.4508	0.4218
7.6	0.4402		0.4397		0.4339		0.4432		0.4517	
7.8	0.4386	0.4373	0.4396	0.4334	0.4343	0.4161	0.4424	0.4356	0.4511	0.4204
8.0	0.4409		0.4457		0.4443		0.4423		0.4395	
8.0	0.4406		0.4431		0.4340		0.4432		0.4505	
8.2	0.4423		0.4406		0.4339		0.4420		0.4499	
8.4	0.4429		0.4424		0.4362		0.4414		0.4502	
8.6	0.4427	0.4437	0.4425	0.4378	0.4376	0.4202	0.4404	0.4363	0.4499	0.4218
8.8	0.4441		0.4448		0.4362		0.4453		0.4535	
9.0	0.4468		0.4472		0.4383		0.4492		0.4574	
9.2	0.4445		0.4451		0.4387		0.4503		0.4552	
9.4	0.4454	0.4423	0.4455	0.4390	0.4361	0.4195	0.4480	0.4384	0.4511	0.4260
9.6	0.4453		0.4444		0.4362		0.4470		0.4517	
9.8	0.4429		0.4439		0.4368		0.4462		0.4514	
10.0	0.4439		0.4434		0.4370		0.4486		0.4564	
10.2	0.4423	0.4469	0.4442	0.4413	0.4357	0.4212	0.4456	0.4412	0.4577	0.4312
10.4	0.4438		0.4439		0.4363		0.4444		0.4553	
10.6	0.4453		0.4448		0.4363		0.4480		0.4529	

Table III (Continued),
 $M_{\infty}=1.2$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.3	0.7634	0.7634	0.7291	0.7576	0.6927	0.7369	0.7976	0.7621	0.8310	0.7401
0.3	0.7656	0.7694	0.8003	0.7641	0.8307	0.7450	0.7374	0.7686	0.6969	0.7500
0.6		0.7036		0.6978		0.6810		0.7013		0.6823
0.7	0.6726		0.6447		0.6157		0.7014		0.7306	
0.8	0.6313	0.6326	0.6086	0.6281	0.5850	0.6137	0.6548	0.6313	0.6796	0.6152
0.9	0.1214	0.1223	0.1157	0.1228	0.1127	0.1180	0.1246	0.1238	0.1341	0.1188
0.9	0.1293		0.1331		0.1377		0.1231		0.1232	
1.0	0.1503	0.1495	0.1355	0.1520	0.1274	0.1511	0.1617	0.1527	0.1883	0.1509
1.1	0.1766	0.1776	0.1512	0.1842	0.1424	0.1773	0.1911	0.1844	0.2357	0.1771
1.2	0.2060		0.1768		0.1602		0.2319		0.2825	
1.3	0.2294	0.2285	0.1920	0.2293	0.1791	0.2289	0.2449	0.2303	0.3009	0.2284
1.5	0.2725		0.2383		0.2133		0.3068		0.3565	
1.6	0.2915		0.2598		0.2340		0.3246		0.3687	
1.7	0.3061	0.3087	0.2779	0.3101	0.2601	0.3036	0.3338	0.3110	0.3730	0.3050
1.8										
1.9	0.3337	0.3345	0.3206	0.3315	0.3147	0.3183	0.3553	0.3328	0.3824	0.3184
2.0	0.3453		0.3371		0.3394		0.3628		0.3852	
2.1	0.3564	0.3586	0.3543	0.3481	0.3589	0.3241	0.3661	0.3515	0.3890	0.3269
2.1										
2.2	0.3628		0.3655		0.3762		0.3722		0.3885	
2.3	0.3703	0.3665	0.3771	0.3574	0.3878	0.3256	0.3764	0.3613	0.3905	0.3257
2.4	0.3755		0.3847		0.3954		0.3801		0.3910	
2.5	0.3847	0.3771	0.3905	0.3679	0.4009	0.3291	0.3829	0.3700	0.3917	0.3323
2.6	0.3849		0.3949		0.4047		0.3833		0.3910	
2.7	0.3899	0.3824	0.4021	0.3723	0.4087	0.3321	0.3867	0.3744	0.3918	0.3353
2.8	0.3917		0.4006		0.4100		0.3866		0.3929	
2.9	0.3920	0.3929	0.4019	0.3843	0.4092	0.3483	0.3865	0.3868	0.3911	0.3524
3.0	0.3941		0.4046		0.4111		0.3901		0.3927	
3.1	0.3966	0.3968	0.4079	0.3885	0.4114	0.3594	0.3932	0.3896	0.3928	0.3644
3.3	0.3984	0.3978	0.4096	0.3904	0.4131	0.3681	0.3956	0.3916	0.3922	0.3705
3.4	0.3994		0.4099		0.4140		0.3966		0.3926	
3.5		0.4008		0.3961		0.3750		0.3977		0.3779
3.6	0.4015		0.4107		0.4123		0.3996		0.3942	
3.7	0.4032	0.4001	0.4107	0.3963	0.4150	0.3749	0.4013	0.3975	0.3956	
3.8	0.4054		0.4123		0.4149		0.4032		0.3980	
3.9	0.4068	0.4033	0.4123	0.3971	0.4149	0.3767	0.4040	0.4028	0.4015	0.3804
4.0	0.4069		0.4121		0.4149		0.4062		0.4026	

4.1	0.4110	0.4054	0.4159	0.3982	0.4179	0.3808	0.4109	0.4028	0.4107	0.3814
4.3	0.4090	0.4079	0.4141	0.4023	0.4164	0.3846	0.4106	0.4030	0.4123	0.3843
4.4	0.4093		0.4162		0.4173		0.4133		0.4141	
4.5	0.4117	0.4102	0.4172	0.4068	0.4161	0.3874	0.4140	0.4026	0.4138	0.3871
4.6	0.4134						0.4160		0.4146	
4.7	0.4153	0.4069	0.4186	0.4076	0.4170	0.3862	0.4170	0.4105	0.4162	0.3931
4.8	0.4129		0.4144		0.4149		0.4148		0.4153	
4.9	0.4134	0.4141	0.4153	0.4112	0.4146	0.3918	0.4156	0.4141	0.4164	0.3951
5.0	0.4138		0.4127		0.4147		0.4184		0.4194	
5.3	0.4090		0.4142		0.4138		0.4166		0.4247	
5.4	0.4117		0.4142		0.4143		0.4172		0.4245	
5.5	0.4099	0.4142	0.4127	0.4082	0.4129	0.3902	0.4148	0.4080	0.4206	0.3922
5.7	0.4146	0.4155	0.4153	0.4096	0.4176	0.3907	0.4163	0.4111	0.4221	0.3913
5.8	0.4140		0.4159		0.4199		0.4178		0.4215	
5.9	0.4152		0.4162		0.4208		0.4189		0.4218	
6.0	0.4146		0.4159		0.4185		0.4184		0.4197	
6.2	0.4158		0.4183		0.4173		0.4210		0.4247	
6.3	0.4140		0.4177		0.4143		0.4193		0.4239	
6.4	0.4152		0.4192		0.4152		0.4207		0.4254	
6.5	0.4129	0.4128	0.4168	0.4091	0.4129	0.3928	0.4187	0.4137	0.4242	0.3948
6.6	0.4146		0.4174		0.4134		0.4204		0.4271	
6.7	0.4153	0.4112	0.4157	0.4105	0.4141	0.3949	0.4196	0.4112	0.4271	0.3959
6.8	0.4167		0.4162		0.4155		0.4201		0.4280	
6.9	0.4155	0.4124	0.4150	0.4073	0.4155	0.3910	0.4186	0.4097	0.4266	0.3952
7.0	0.4116		0.4141		0.4155		0.4186		0.4257	
7.1	0.4132	0.4164	0.4136	0.4089	0.4123	0.3912	0.4187	0.4114	0.4256	0.3968
7.2	0.4123		0.4151		0.4147		0.4205		0.4259	
7.3	0.4112	0.4142	0.4155	0.4083	0.4151	0.3926	0.4198	0.4112	0.4245	0.3936
7.5	0.4126	0.4096	0.4162	0.4067	0.4149	0.3913	0.4208	0.4110	0.4259	0.3923
7.6	0.4128		0.4162		0.4134		0.4187		0.4230	
7.8	0.4132	0.4101	0.4157	0.4071	0.4126	0.3916	0.4175	0.4078	0.4247	0.3936
8.0	0.4114		0.4216		0.4235		0.4154		0.4120	
8.0	0.4129		0.4157		0.4135		0.4151		0.4268	
8.2	0.4116		0.4150		0.4125		0.4148		0.4206	
8.4	0.4122		0.4150		0.4122		0.4159		0.4185	
8.6	0.4112	0.4138	0.4142	0.4105	0.4077	0.3948	0.4152	0.4121	0.4165	0.3919
8.8	0.4119		0.4144		0.4089		0.4177		0.4200	
9.0	0.4140		0.4141		0.4098		0.4198		0.4227	
9.2	0.4117		0.4130		0.4096		0.4175		0.4256	
9.4	0.4091	0.4070	0.4110	0.4046	0.4097	0.3897	0.4166	0.4053	0.4250	0.3934
9.6	0.4064		0.4110		0.4085		0.4147		0.4221	
9.8	0.4059		0.4108		0.4042		0.4124		0.4197	
10.0	0.4100		0.4116		0.4056		0.4099		0.4189	
10.2	0.4116	0.4116	0.4129	0.4092	0.4054	0.3940	0.4091	0.4081	0.4188	0.3947
10.4	0.4128		0.4129		0.4051		0.4133		0.4185	
10.6	0.4125		0.4129		0.4054		0.4187		0.4197	

Table III (Continued)
 $M_\infty = 1.3$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.3	0.7286	0.7292	0.6933	0.7227	0.6534	0.7027	0.7646	0.7223	0.7994	0.7040
0.3	0.7311	0.7335	0.7631	0.7281	0.7998	0.7080	0.6897	0.7280	0.6539	0.7129
0.6		0.6767		0.6701		0.6538		0.6699		0.6538
0.7	0.6491		0.6204		0.5897		0.6782		0.7072	
0.8	0.6122	0.6141	0.5894	0.6089	0.5646	0.5947	0.6358	0.6077	0.6605	0.5954
0.9	0.1188	0.1189	0.1151	0.1172	0.1106	0.1140	0.1241	0.1172	0.1292	0.1131
0.9	0.1265		0.1292		0.1345		0.1206		0.1135	
1.0	0.1430	0.1413	0.1331	0.1423	0.1239	0.1379	0.1580	0.1410	0.1750	0.1366
1.1	0.1648	0.1649	0.1545	0.1672	0.1403	0.1668	0.1948	0.1672	0.2183	0.1661
1.2	0.1883		0.1705		0.1516		0.2205		0.2563	
1.3	0.2137	0.2074	0.1988	0.2008	0.1768	0.1977	0.2574	0.2020	0.2815	0.1975
1.5	0.2448		0.2201		0.1957		0.2793		0.3177	
1.6	0.2588		0.2337		0.2088		0.2919		0.3284	
1.7	0.2693	0.2714	0.2475	0.2732	0.2263	0.2678	0.2999	0.2729	0.3324	0.2695
1.8										
1.9	0.2952	0.2913	0.2802	0.2919	0.2692	0.2793	0.3163	0.2879	0.3415	0.2789
2.0	0.3055		0.2939		0.2886		0.3228		0.3451	
2.1	0.3156	0.3120	0.3073	0.3054	0.3073	0.2870	0.3269	0.3018	0.3464	0.2852
2.1										
2.2	0.3208		0.3185		0.3211		0.3313		0.3482	
2.3	0.3259	0.3185	0.3286	0.3075	0.3333	0.2870	0.3347	0.3062	0.3502	0.2813
2.4	0.3299		0.3345		0.3412		0.3373		0.3513	
2.5	0.3354	0.3274	0.3388	0.3167	0.3488	0.2866	0.3392	0.3162	0.3524	0.2858
2.6	0.3379		0.3416		0.3517		0.3391		0.3511	
2.7	0.3402	0.3314	0.3436	0.3194	0.3521	0.2844	0.3447	0.3193	0.3518	0.2871
2.8	0.3420		0.3468		0.3567		0.3422		0.3509	
2.9	0.3411	0.3432	0.3477	0.3335	0.3578	0.2925	0.3416	0.3339	0.3483	0.2992
3.0	0.3441		0.3516		0.3596		0.3426		0.3498	
3.1	0.3475	0.3493	0.3550	0.3409	0.3620	0.3018	0.3430	0.3376	0.3502	0.3055
3.3	0.3488	0.3476	0.3566	0.3411	0.3628	0.3137	0.3430	0.3396	0.3485	0.3116
3.4	0.3492		0.3570		0.3625		0.3446		0.3483	
3.5		0.3560		0.3458		0.3211		0.3453		0.3208
3.6	0.3509		0.3578		0.3623		0.3450		0.3480	
3.7	0.3511	0.3553	0.3583	0.3460	0.3626	0.3237	0.3460	0.3503	0.3488	
3.8	0.3530		0.3603		0.3631		0.3491		0.3501	
3.9	0.3548	0.3550	0.3608	0.3433	0.3625	0.3317	0.3526	0.3517	0.3494	0.3351
4.0	0.3540		0.3603		0.3623		0.3539		0.3487	

Table III (Continued)
M_∞=1.4

x/d	P/P ₁									
	α=0	ψ=0	α=4	ψ=4	α=8	ψ=8	α=-4	ψ=-4	α=-8	ψ=-8
0.3	0.6772	0.6781	0.6385	0.6687	0.5987	0.6519	0.7199	0.6727	0.7649	0.6554
0.3	0.6806	0.6851	0.7245	0.6771	0.7588	0.6602	0.6346	0.6817	0.6095	0.6663
0.6		0.6412		0.6330		0.6152		0.6343		0.6170
0.7	0.6199		0.5905		0.5557		0.6506		0.6840	
0.8	0.5905	0.5920	0.5674	0.5838	0.5390	0.5674	0.6162	0.5855	0.6412	0.5695
0.9	0.1143	0.1142	0.1098	0.1144	0.1067	0.1078	0.1185	0.1121	0.1246	0.1115
0.9	0.1202		0.1252		0.1324		0.1152		0.1125	
1.0	0.1332	0.1320	0.1225	0.1332	0.1177	0.1267	0.1441	0.1306	0.1627	0.1294
1.1	0.1513	0.1506	0.1319	0.1535	0.1268	0.1484	0.1646	0.1506	0.1912	0.1511
1.2	0.1702		0.1474		0.1369		0.1914		0.2256	
1.3	0.1859	0.1833	0.1566	0.1822	0.1509	0.1763	0.2015	0.1793	0.2338	0.1790
1.5	0.2172		0.1895		0.1710		0.2420		0.2793	
1.6	0.2285		0.2009		0.1823		0.2522		0.2878	
1.7	0.2354	0.2358	0.2076	0.2382	0.1920	0.2315	0.2572	0.2349	0.2897	0.2327
1.8										
1.9	0.2550	0.2517	0.2369	0.2514	0.2279	0.2399	0.2758	0.2499	0.3003	0.2447
2.0	0.2620		0.2488		0.2423		0.2813		0.3021	
2.1	0.2692	0.2675	0.2598	0.2622	0.2574	0.2472	0.2847	0.2634	0.3055	0.2502
2.1										
2.2	0.2731		0.2675		0.2686		0.2881		0.3052	
2.3	0.2791	0.2731	0.2755	0.2644	0.2790	0.2459	0.2912	0.2656	0.3072	0.2458
2.4	0.2808		0.2813		0.2870		0.2927		0.3065	
2.5	0.2848	0.2842	0.2865	0.2722	0.2931	0.2473	0.2940	0.2748	0.3083	0.2490
2.6	0.2861		0.2908		0.2971		0.2948		0.3076	
2.7	0.2892	0.2900	0.2997	0.2789	0.3032	0.2482	0.2944	0.2802	0.3040	0.2489
2.8	0.2917		0.3001		0.3058		0.2970		0.3102	
2.9	0.2931	0.2969	0.3026	0.2894	0.3080	0.2536	0.2949	0.2902	0.3091	0.2571
3.0	0.2983		0.3065		0.3113		0.2959		0.3098	
3.1	0.3022	0.2968	0.3068	0.2905	0.3134	0.2532	0.2978	0.2896	0.3095	0.2588
3.3	0.3035	0.2969	0.3079	0.2894	0.3128	0.2571	0.3005	0.2773	0.3085	0.2654
3.4	0.3024		0.3079		0.3122		0.3009		0.3095	
3.5		0.3030		0.2928		0.2667		0.2936		0.2732
3.6	0.3021		0.3070		0.3123		0.3003		0.3079	
3.7	0.3032	0.3050	0.3110	0.2935	0.3138	0.2720	0.2993	0.2930	0.3093	0.2749
3.8	0.3048		0.3130		0.3149		0.3006		0.3083	
3.9	0.3050	0.3059	0.3142	0.2978	0.3158	0.2754	0.3029	0.2982	0.3079	0.2779
4.0	0.3052		0.3127		0.3152		0.3049		0.3063	

4.1	0.3577	0.3535	0.3626	0.3483	0.3661	0.3318	0.3579	0.3499	0.3542	0.3363
4.3	0.3542	0.3528	0.3585	0.3493	0.3631	0.3302	0.3565	0.3487	0.3549	0.3349
4.4	0.3561		0.3579		0.3637		0.3554		0.3576	
4.5	0.3565	0.3511	0.3563	0.3485	0.3594	0.3291	0.3564	0.3474	0.3586	0.3328
4.6	0.3551		0.3561		0.3545		0.3571		0.3620	
4.7	0.3553	0.3487	0.3554	0.3474	0.3579	0.3296	0.3570	0.3481	0.3662	0.3329
4.8	0.3522		0.3529		0.3569		0.3530		0.3650	
4.9	0.3515	0.3564	0.3533	0.3511	0.3562	0.3320	0.3523	0.3509	0.3632	0.3348
5.0	0.3517		0.3539		0.3567		0.3534		0.3612	
5.3	0.3511		0.3574		0.3558		0.3528		0.3579	
5.4	0.3540		0.3597		0.3590		0.3572		0.3603	
5.5	0.3552	0.3561	0.3571	0.3539	0.3581	0.3359	0.3563	0.3515	0.3579	0.3356
5.7	0.3602	0.3561	0.3603	0.3548	0.3670	0.3466	0.3628	0.3520	0.3594	0.3361
5.8	0.3584		0.3594		0.3664		0.3616		0.3626	
5.9	0.3602		0.3591		0.3649		0.3607		0.3668	
6.0	0.3573		0.3576		0.3611		0.3574		0.3674	
6.2	0.3567		0.3618		0.3587		0.3586		0.3701	
6.3	0.3549		0.3594		0.3566		0.3583		0.3671	
6.4	0.3568		0.3599		0.3598		0.3609		0.3674	
6.5	0.3546	0.3565	0.3571	0.3494	0.3593	0.3349	0.3595	0.3528	0.3650	0.3404
6.6	0.3548		0.3579		0.3613		0.3604		0.3656	
6.7	0.3538	0.3553	0.3568	0.3545	0.3605	0.3392	0.3581	0.3548	0.3644	0.3407
6.8	0.3578		0.3594		0.3611		0.3589		0.3650	
6.9	0.3593	0.3547	0.3603	0.3512	0.3601	0.3349	0.3577	0.3515	0.3653	0.3382
7.0	0.3589		0.3611		0.3592		0.3572		0.3650	
7.1	0.3576	0.3573	0.3624	0.3515	0.3561	0.3346	0.3575	0.3522	0.3662	0.3397
7.2	0.3582		0.3639		0.3588		0.3581		0.3695	
7.3	0.3582	0.3583	0.3640	0.3527	0.3597	0.3382	0.3590	0.3503	0.3680	0.3397
7.5	0.3635	0.3582	0.3657	0.3547	0.3620	0.3396	0.3690	0.3509	0.3668	0.3362
7.6	0.3656		0.3653		0.3640		0.3666		0.3671	
7.8	0.3665	0.3595	0.3636	0.3555	0.3667	0.3404	0.3663	0.3585	0.3689	0.3428
8.0	0.3644		0.3692		0.3729		0.3649		0.3659	
8.0	0.3647		0.3627		0.3641		0.3687		0.3742	
8.2	0.3590		0.3611		0.3601		0.3684		0.3778	
8.4	0.3577		0.3626		0.3583		0.3654		0.3749	
8.6	0.3586	0.3650	0.3628	0.3624	0.3565	0.3485	0.3596	0.3627	0.3715	0.3473
8.8	0.3628		0.3635		0.3613		0.3606		0.3749	
9.0	0.3670		0.3677		0.3649		0.3660		0.3728	
9.2	0.3626		0.3695		0.3632		0.3705		0.3718	
9.4	0.3647	0.3600	0.3680	0.3570	0.3611	0.3420	0.3693	0.3550	0.3733	0.3422
9.6	0.3673		0.3659		0.3609		0.3678		0.3737	
9.8	0.3650		0.3629		0.3574		0.3651		0.3758	
10.0	0.3633		0.3625		0.3597		0.3687		0.3742	
10.2	0.3608	0.3659	0.3630	0.3594	0.3604	0.3455	0.3696	0.3623	0.3728	0.3439
10.4	0.3596		0.3647		0.3590		0.3666		0.3716	
10.6	0.3623		0.3630		0.3575		0.3651		0.3763	

4.1	0.3092	0.3033	0.3153	0.2984	0.3193	0.2779	0.3089	0.2988	0.3097	0.2790
4.3	0.3066	0.3034	0.3106	0.2985	0.3134	0.2780	0.3060	0.2993	0.3050	0.2832
4.4	0.3063		0.3095		0.3143		0.3063		0.3062	
4.5	0.3065	0.3030	0.3113	0.2990	0.3129	0.2800	0.3058	0.3007	0.3084	0.2834
4.6			"				0.3068		0.3085	
4.7	0.3080	0.3069	0.3134	0.3042	0.3147	0.2805	0.3062	0.3028	0.3111	0.2902
4.8	0.3063		0.3089		0.3116		0.3039		0.3113	
4.9	0.3065	0.3092	0.3100	0.3020	0.3119	0.2852	0.3044	0.3020	0.3124	0.2908
5.0	0.3076		0.3119		0.3126		0.3061		0.3134	
5.3	0.3105		0.3128		0.3120		0.3108		0.3143	
5.4	0.3129		0.3160		0.3149		0.3135		0.3164	
5.5	0.3123	0.3120	0.3137	0.3058	0.3129	0.2877	0.3126	0.3075	0.3155	0.2920
5.7	0.3144	0.3151	0.3166	0.3076	0.3173	0.2900	0.3143	0.3080	0.3202	0.2934
5.8	0.3138		0.3151		0.3173		0.3134		0.3202	
5.9	0.3143		0.3145		0.3176		0.3143		0.3223	
6.0	0.3132		0.3127		0.3155		0.3131		0.3211	
6.2	0.3153		0.3133		0.3149		0.3170		0.3235	
6.3	0.3132		0.3121		0.3134		0.3170		0.3217	
6.4	0.3146		0.3150		0.3148		0.3184		0.3232	
6.5	0.3132	0.3169	0.3142	0.3102	0.3137	0.2961	0.3167	0.3128	0.3229	0.3035
6.6	0.3149		0.3154		0.3146		0.3176		0.3249	
6.7	0.3132	0.3125	0.3143	0.3081	0.3147	0.2955	0.3170	0.3085	0.3244	0.2989
6.8	0.3135		0.3151		0.3158		0.3194		0.3249	
6.9	0.3119	0.3124	0.3139	0.3066	0.3161	0.2925	0.3194	0.3052	0.3252	0.2959
7.0	0.3110		0.3138		0.3151		0.3181		0.3244	
7.1	0.3108	0.3087	0.3131	0.3056	0.3131	0.2914	0.3143	0.3046	0.3249	0.2943
7.2	0.3106		0.3122		0.3132		0.3153		0.3270	
7.3	0.3096	0.3054	0.3110	0.3036	0.3108	0.2901	0.3123	0.3018	0.3253	0.2908
7.5	0.3117	0.3034	0.3116	0.2998	0.3093	0.2852	0.3102	0.2984	0.3229	0.2872
7.6	0.3084		0.3106		0.3074		0.3081		0.3217	
7.8	0.3083	0.3096	0.3111	0.3064	0.3076	0.2864	0.3073	0.3069	0.3182	0.2889
8.0	0.3085		0.3199		0.3303		0.3111		0.3098	
8.0	0.3106		0.3137		0.3090		0.3076		0.3167	
8.2	0.3116		0.3115		0.3140		0.3107		0.3109	
8.4	0.3116		0.3114		0.3112		0.3151		0.3148	
8.6	0.3092	0.3103	0.3120	0.3059	0.3082	0.2911	0.3130	0.3050	0.3194	0.2918
8.8	0.3095		0.3138		0.3070		0.3149		0.3256	
9.0	0.3110		0.3135		0.3077		0.3155		0.3253	
9.2	0.3162		0.3125		0.3069		0.3135		0.3235	
9.4	0.3130	0.3088	0.3128	0.3079	0.3043	0.2921	0.3112	0.3052	0.3217	0.2964
9.6	0.3170		0.3174		0.3064		0.3109		0.3204	
9.8	0.3209		0.3204		0.3113		0.3229		0.3220	
10.0	0.3215		0.3190		0.3115		0.3300		0.3220	
10.2	0.3206	0.3200	0.3183	0.3161	0.3125	0.3035	0.3259	0.3165	0.3395	0.3064
10.4	0.3179		0.3175		0.3164		0.3277		0.3410	
10.6	0.3158		0.3175		0.3119		0.3238		0.3392	

Table III (Continued)
 $M_{\infty}=1.5$

x/d	D/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.3	0.6270	0.6288	0.5804	0.6146	0.5451	0.6026	0.6689	0.6223	0.7127	0.5980
0.3	0.6280	0.6315	0.6620	0.6202	0.7058	0.6090	0.5818	0.6289	0.5437	0.6074
0.6	0.6131	0.6069	0.5982	0.5961	0.5724	0.5803	0.6612	0.6000	0.6857	0.5767
0.7	0.5896		0.5607		0.5234		0.6232		0.6539	
0.8	0.5681	0.5708	0.5463	0.5622	0.5152	0.5461	0.5940	0.5636	0.6180	0.5454
0.9	0.1112	0.1111	0.1089	0.1094	0.1052	0.1048	0.1161	0.1066	0.1220	0.1059
0.9	0.1144		0.1210		0.1246		0.1155		0.1143	
1.0	0.1254	0.1251	0.1201	0.1242	0.1134	0.1196	0.1394	0.1216	0.1546	0.1199
1.1	0.1400	0.1405	0.1341	0.1404	0.1244	0.1363	0.1627	0.1383	0.1827	0.1363
1.2	0.1541		0.1440		0.1310		0.1797		0.2074	
1.3	0.1711	0.1658	0.1652	0.1639	0.1505	0.1611	0.2085	0.1627	0.2281	0.1621
1.5	0.1931		0.1763		0.1596		0.2205		0.2505	
1.6	0.2022		0.1849		0.1686		0.2276		0.2572	
1.7	0.2072	0.2059	0.1915	0.2093	0.1761	0.2037	0.2314	0.2095	0.2597	0.2042
1.8										
1.9	0.2240	0.2187	0.2094	0.2207	0.1978	0.2103	0.2419	0.2187	0.2704	0.2143
2.0	0.2299		0.2176		0.2081		0.2453		0.2726	
2.1	0.2376	0.2327	0.2273	0.2316	0.2195	0.2158	0.2521	0.2300	0.2766	0.2194
2.1										
2.2	0.2399		0.2322		0.2277		0.2525		0.2749	
2.3	0.2448	0.2379	0.2391	0.2337	0.2369	0.2153	0.2559	0.2312	0.2754	0.2202
2.4	0.2465		0.2417		0.2427		0.2565		0.2745	
2.5	0.2514	0.2459	0.2471	0.2377	0.2497	0.2191	0.2593	0.2370	0.2760	0.2210
2.6	0.2533		0.2497		0.2537		0.2598		0.2742	
2.7	0.2557	0.2477	0.2544	0.2376	0.2560	0.2141	0.2653	0.2352	0.2774	0.2155
2.8	0.2559		0.2555		0.2606		0.2611		0.2743	
2.9	0.2550	0.2573	0.2555	0.2464	0.2628	0.2182	0.2593	0.2457	0.2727	0.2201
3.0	0.2565		0.2588		0.2655		0.2609		0.2730	
3.1	0.2578	0.2593	0.2610	0.2466	0.2697	0.2187	0.2613	0.2482	0.2728	0.2192
3.3	0.2591	0.2523	0.2626	0.2472	0.2723	0.2199	0.2623	0.2501	0.2700	0.2204
3.4	0.2601		0.2641		0.2729		0.2620		0.2688	
3.5		0.2647		0.2551		0.2294		0.2576		0.2287
3.6	0.2610		0.2679		0.2739		0.2623		0.2684	
3.7	0.2618	0.2622	0.2693	0.2544	0.2739	0.2320	0.2625	0.2560	0.2684	0.2295
3.8	0.2630		0.2713		0.2747		0.2629		0.2691	
3.9	0.2639	0.2645	0.2713	0.2575	0.2752	0.2364	0.2641	0.2600	0.2679	0.2334
4.0	0.2637		0.2716		0.2744		0.2627		0.2665	

4.1	0.2677	0.2645	0.2751	0.2638	0.2785	0.2388	0.2664	0.2596	0.2688	0.2390
4.3	0.2669	0.2660	0.2743	0.2621	0.2762	0.2430	0.2626	0.2575	0.2688	0.2433
4.4	0.2705		0.2746		0.2759		0.2633		0.2704	
4.5	0.2709	0.2692	0.2717	0.2609	0.2730	0.2432	0.2643	0.2602	0.2713	0.2434
4.6	0.2720		0.2719		0.2717		0.2638		0.2697	
4.7	0.2715	0.2668	0.2720	0.2652	0.2730	0.2442	0.2655	0.2632	0.2702	0.2480
4.8	0.2682		0.2701		0.2711		0.2648		0.2683	
4.9	0.2675	0.2763	0.2704	0.2689	0.2711	0.2515	0.2658	0.2664	0.2691	0.2504
5.0	0.2694		0.2720		0.2724		0.2681		0.2713	
5.3	0.2721		0.2702		0.2747		0.2740		0.2716	
5.4	0.2741		0.2711		0.2768		0.2761		0.2740	
5.5	0.2712	0.2683	0.2690	0.2627	0.2738	0.2460	0.2728	0.2634	0.2722	0.2471
5.7	0.2706	0.2688	0.2711	0.2614	0.2753	0.2482	0.2740	0.2635	0.2784	0.2463
5.8	0.2690		0.2710		0.2747		0.2728		0.2790	
5.9	0.2681		0.2722		0.2753		0.2728		0.2814	
6.0	0.2658		0.2710		0.2741		0.2701		0.2796	
6.2	0.2679		0.2719		0.2765		0.2707		0.2808	
6.3	0.2673		0.2704		0.2741		0.2686		0.2781	
6.4	0.2704		0.2730		0.2761		0.2709		0.2787	
6.5	0.2694	0.2678	0.2711	0.2640	0.2732	0.2490	0.2698	0.2621	0.2769	0.2502
6.6	0.2714		0.2722		0.2741		0.2716		0.2778	
6.7	0.2709	0.2689	0.2708	0.2633	0.2733	0.2511	0.2696	0.2654	0.2764	0.2523
6.8	0.2732		0.2728		0.2744		0.2704		0.2778	
6.9	0.2717	0.2674	0.2728	0.2636	0.2741	0.2490	0.2704	0.2629	0.2787	0.2506
7.0	0.2710		0.2724		0.2734		0.2697		0.2784	
7.1	0.2712	0.2691	0.2725	0.2643	0.2729	0.2496	0.2707	0.2637	0.2781	0.2494
7.2	0.2712		0.2717		0.2718		0.2711		0.2784	
7.3	0.2706	0.2675	0.2714	0.2624	0.2709	0.2497	0.2714	0.2631	0.2774	0.2473
7.5	0.2724	0.2664	0.2761	0.2599	0.2729	0.2483	0.2734	0.2606	0.2781	0.2459
7.6	0.2720		0.2731		0.2726		0.2737		0.2769	
7.8	0.2733	0.2700	0.2729	0.2647	0.2730	0.2509	0.2740	0.2646	0.2781	0.2498
8.0	0.2732		0.2746		0.2771		0.2710		0.2728	
8.0	0.2730		0.2734		0.2724		0.2740		0.2793	
8.2	0.2723		0.2722		0.2699		0.2727		0.2799	
8.4	0.2725		0.2730		0.2701		0.2745		0.2820	
8.6	0.2710	0.2777	0.2712	0.2744	0.2669	0.2555	0.2732	0.2724	0.2802	0.2567
8.8	0.2740		0.2739		0.2684		0.2751		0.2820	
9.0	0.2776		0.2754		0.2720		0.2778		0.2835	
9.2	0.2753		0.2743		0.2738		0.2799		0.2858	
9.4	0.2721	0.2696	0.2711	0.2649	0.2712	0.2521	0.2770	0.2638	0.2855	0.2555
9.6	0.2689		0.2700		0.2674		0.2745		0.2862	
9.8	0.2660		0.2698		0.2642		0.2698		0.2820	
10.0	0.2668		0.2700		0.2630		0.2694		0.2823	
10.2	0.2696	0.2755	0.2719	0.2713	0.2631	0.2608	0.2671	0.2698	0.2787	0.2554
10.4	0.2747		0.2731		0.2681		0.2710		0.2775	
10.6	0.2765		0.2734		0.2708		0.2778		0.2748	

Table III (Concluded)
 $M_{\infty} = 1.6$

x/d	θ/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.3	0.5499	0.5458	0.4999	0.5340	0.4661	0.5241	0.5999	0.5447	0.6485	0.5362
0.3	0.5480	0.5628	0.5993	0.5485	0.6411	0.5384	0.5228	0.5647	0.4724	0.5531
0.6		0.5626		0.5447		0.5285		0.5517		0.5409
0.7	0.5487		0.5070		0.4608		0.5833		0.6175	
0.8	0.5400	0.5440	0.5058	0.5257	0.4611	0.5064	0.5647	0.5409	0.5906	0.5158
0.9	0.1071		0.1012		0.0952		0.1091		0.1155	
0.9	0.1136		0.1136		0.1158		0.1082		0.1057	
1.0	0.1181	0.1156	0.1086	0.1140	0.0999	0.1091	0.1230	0.1140	0.1400	0.1079
1.1	0.1277	0.1269	0.1120	0.1253	0.1063	0.1209	0.1345	0.1262	0.1616	0.1203
1.2	0.1373		0.1206		0.1120		0.1494		0.1821	
1.3	0.1463	0.1435	0.1268	0.1413	0.1221	0.1374	0.1573	0.1441	0.1933	0.1375
1.5	0.1658		0.1454		0.1335		0.1855		0.2188	
1.6	0.1728		0.1525		0.1401		0.1929		0.2241	
1.7	0.1772	0.1792	0.1552	0.1761	0.1434	0.1773	0.1943	0.1790	0.2244	0.1759
1.8										
1.9	0.1907	0.1879	0.1730	0.1857	0.1644	0.1829	0.2084	0.1877	0.2343	0.1829
2.0	0.1928		0.1800		0.1756		0.2109		0.2344	
2.1	0.1977	0.1970	0.1856	0.2023	0.1873	0.1854	0.2150	0.2035	0.2385	0.1872
2.1										
2.2	0.2001		0.1929		0.1945		0.2157		0.2379	
2.3	0.2058	0.2004	0.1989	0.2039	0.2011	0.1822	0.2180	0.2037	0.2403	0.1853
2.4	0.2093		0.2023		0.2057		0.2188		0.2388	
2.5	0.2142	0.2129	0.2081	0.2062	0.2106	0.1829	0.2208	0.2056	0.2400	0.1842
2.6	0.2162		0.2109		0.2146		0.2203		0.2394	
2.7	0.2192	0.2183	0.2171	0.2035	0.2185	0.1802	0.2216	0.2024	0.2387	0.1810
2.8	0.2208		0.2170		0.2212		0.2231		0.2382	
2.9	0.2205	0.2242	0.2173	0.2091	0.2231	0.1877	0.2229	0.2098	0.2358	0.1878
3.0	0.2229		0.2203		0.2273		0.2256		0.2364	
3.1	0.2242	0.2241	0.2222	0.2098	0.2318	0.1860	0.2277	0.2105	0.2394	0.1860
3.3	0.2225	0.2229	0.2259	0.2122	0.2352	0.1863	0.2276	0.2151	0.2391	0.1868
3.4	0.2229		0.2275		0.2367		0.2285		0.2370	
3.5		0.2268		0.2187		0.1919		0.2217		0.1906
3.6	0.2255		0.2294		0.2357		0.2282		0.2350	
3.7	0.2269	0.2252	0.2311	0.2176	0.2377	0.1905	0.2281	0.2219	0.2335	0.1902
3.8	0.2292		0.2334		0.2376		0.2265		0.2322	
3.9	0.2297	0.2270	0.2352	0.2202	0.2373	0.1948	0.2285	0.2251	0.2318	0.1954
4.0	0.2283		0.2346		0.2365		0.2280		0.2301	

4.1	0.2330	0.2296	0.2375	0.2203	0.2397	0.1981	0.2312	0.2246	0.2351	0.2006
4.3	0.2342	0.2294	0.2355	0.2208	0.2385	0.2037	0.2282	0.2247	0.2358	0.2067
4.4	0.2355		0.2346		0.2385		0.2289		0.2355	
4.5	0.2340	0.2308	0.2379	0.2214	0.2371	0.2069	0.2317	0.2253	0.2350	0.2073
4.6									0.2355	
4.7	0.2358	0.2284	0.2391	0.2230	0.2371	0.2088	0.2335	0.2255	0.2380	0.2106
4.8	0.2334		0.2349		0.2344		0.2336		0.2355	
4.9	0.2321	0.2339	0.2343	0.2271	0.2340	0.2077	0.2330	0.2283	0.2351	0.2149
5.0	0.2314		0.2353		0.2347		0.2325		0.2368	
5.3	0.2290		0.2323		0.2315		0.2319		0.2352	
5.4	0.2307		0.2320		0.2338		0.2328		0.2367	
5.5	0.2302	0.2331	0.2299	0.2250	0.2327	0.2088	0.2298	0.2289	0.2358	0.2128
5.7	0.2328	0.2322	0.2314	0.2272	0.2368	0.2089	0.2322	0.2285	0.2391	0.2124
5.8	0.2319		0.2305		0.2359		0.2310		0.2379	
5.9	0.2327		0.2304		0.2355		0.2315		0.2388	
6.0	0.2322		0.2293		0.2326		0.2301		0.2364	
6.2	0.2340		0.2308		0.2329		0.2337		0.2370	
6.3	0.2319		0.2284		0.2326		0.2339		0.2361	
6.4	0.2336		0.2310		0.2349		0.2383		0.2391	
6.5	0.2322	0.2335	0.2308	0.2241	0.2338	0.2123	0.2372	0.2266	0.2382	0.2132
6.6	0.2331		0.2313		0.2356		0.2381		0.2403	
6.7	0.2323	0.2318	0.2326	0.2247	0.2350	0.2118	0.2375	0.2303	0.2397	0.2149
6.8	0.2340		0.2343		0.2350		0.2390		0.2415	
6.9	0.2321	0.2339	0.2319	0.2236	0.2335	0.2101	0.2390	0.2293	0.2409	0.2127
7.0	0.2306		0.2321		0.2328		0.2377		0.2406	
7.1	0.2295	0.2361	0.2290	0.2288	0.2300	0.2143	0.2346	0.2323	0.2388	0.2157
7.2	0.2296		0.2315		0.2327		0.2355		0.2412	
7.3	0.2301	0.2340	0.2311	0.2286	0.2321	0.2187	0.2337	0.2312	0.2412	0.2161
7.5	0.2370	0.2285	0.2364	0.2266	0.2347	0.2117	0.2352	0.2256	0.2448	0.2144
7.6	0.2357		0.2361		0.2329		0.2339		0.2451	
7.8	0.2364	0.2280	0.2350	0.2243	0.2301	0.2133	0.2349	0.2251	0.2439	0.2152
8.0	0.2358		0.2471		0.2503		0.2343		0.2334	
8.0	0.2349		0.2326		0.2277		0.2372		0.2430	
8.2	0.2315		0.2298		0.2260		0.2360		0.2418	
8.4	0.2294		0.2298		0.2256		0.2341		0.2442	
8.6	0.2285	0.2331	0.2277	0.2242	0.2263	0.2104	0.2299	0.2290	0.2412	0.2144
8.8	0.2315		0.2295		0.2272		0.2360		0.2382	
9.0	0.2342		0.2331		0.2299		0.2399		0.2403	
9.2	0.2340		0.2344		0.2315		0.2360		0.2427	
9.4	0.2317	0.2277	0.2329	0.2249	0.2304	0.2127	0.2343	0.2248	0.2451	0.2145
9.6	0.2323		0.2336		0.2301		0.2326		0.2451	
9.8	0.2318		0.2334		0.2278		0.2309		0.2448	
10.0	0.2355		0.2338		0.2278		0.2332		0.2400	
10.2	0.2348	0.2376	0.2337	0.2326	0.2299	0.2184	0.2351	0.2326	0.2388	0.2167
10.4	0.2351		0.2343		0.2311		0.2378		0.2394	
10.6	0.2375		0.2346		0.2320		0.2396		0.2400	

TABLE IV
ELLIPSE-CYLINDER STATIC PRESSURE DISTRIBUTIONS
 $M_\infty = 0.6$

x/d	P/P _t	
	$\alpha=0$	$\psi=0$
0.2	0.7874	0.7888
0.2		0.7906
0.6		0.7146
0.8	0.7122	
0.9	0.7173	0.7170
1.0	0.7405	
1.1	0.7554	
1.1	0.7548	
1.2	0.7627	
1.3	0.7669	
1.4	0.7712	0.7687
1.6	0.7739	0.7735
1.8	0.7760	
1.9	0.7769	
2.0	0.7771	0.7788
2.1	0.7783	
2.2	0.7791	0.7780
2.3	0.7795	
2.4	0.7804	
2.5	0.7805	
2.6	0.7809	0.7796
2.8		0.7815
2.9	0.7810	
3.0		0.7826
3.1	0.7817	
3.2	0.7820	0.7831
3.3	0.7818	
3.4	0.7822	0.7825
3.5	0.7821	
3.6	0.7822	0.7825
3.7	0.7826	
3.8	0.7824	0.7809
4.0	0.7820	0.7823
4.1	0.7818	
4.2		0.7828
4.3	0.7826	
4.4	0.7828	0.7820
4.5	0.7827	

x/d	P/P _t	
	$\alpha=0$	$\psi=0$
0.2	0.6766	0.6802
0.2		0.6805
0.6		0.5316
0.8	0.5094	
0.9	0.5255	0.5265
1.0	0.5830	
1.1	0.6093	
1.1	0.6112	
1.2	0.6242	
1.3	0.6306	
1.4	0.6373	0.6350
1.6	0.6416	0.6405
1.8	0.6446	
1.9	0.6462	
2.0	0.6462	0.6482
2.1	0.6481	
2.2	0.6491	0.6484
2.3	0.6501	
2.4	0.6506	
2.5	0.6514	
2.6	0.6518	0.6498
2.8		0.6519
2.9	0.6518	
3.0		0.6525
3.1	0.6524	
3.2	0.6532	0.6546
3.3	0.6525	
3.4	0.6548	0.6535
3.5	0.6538	
3.6	0.6527	0.6548
3.7	0.6538	
3.8	0.6538	0.6580
4.0	0.6535	0.6541
4.1	0.6546	
4.2		0.6543
4.3	0.6533	
4.4	0.6545	0.6546
4.5	0.6545	

4.6	0.7832	0.7830
4.7	0.7829	
4.8	0.7826	0.7839
5.0	0.7829	0.7830
5.1	0.7828	
5.2		
5.4		0.7819
5.5	0.7833	
5.6	0.7830	0.7833
5.7	0.7837	
6.0	0.7826	
6.1	0.7831	
6.2	0.7833	0.7833
6.4	0.7840	0.7836
6.5	0.7834	
6.6	0.7839	
6.7	0.7833	
6.9	0.7836	
7.0	0.7826	
7.1	0.7836	
7.2		0.7844
7.3	0.7838	
7.4	0.7838	0.7818
7.5	0.7829	
7.6	0.7841	0.7831
7.7	0.7843	
7.8	0.7843	0.7841
7.9	0.7844	
8.0	0.7840	0.7836
8.2		0.7849
8.3	0.7834	
8.5	0.7846	0.7825
8.7	0.7836	
8.9	0.7840	
9.1	0.7846	
9.3	0.7847	0.7847
9.5	0.7852	
9.7	0.7859	
9.9	0.7850	
10.1	0.7861	0.7860
10.3	0.7863	
10.5	0.7865	
10.7	0.7860	
10.9	0.7866	0.7860
11.1	0.7863	
11.3	0.7865	

4.6	0.6551	0.6550
4.7	0.6548	
4.8	0.6551	0.6549
5.0	0.6543	0.6545
5.1	0.6543	
5.2		
5.4		0.6545
5.5	0.6554	
5.6	0.6550	0.6550
5.7	0.6567	
6.0	0.6554	
6.1	0.6551	
6.2	0.6554	0.6556
6.4	0.6566	0.6591
6.5	0.6559	
6.6	0.6564	
6.7	0.6554	
6.9	0.6559	
7.0	0.6559	
7.1	0.6560	
7.2	0.6557	0.6567
7.3	0.6556	
7.4	0.6561	0.6549
7.5	0.6582	
7.6	0.6566	0.6556
7.7	0.6569	
7.8	0.6568	0.6569
7.9	0.6570	
8.0	0.6569	0.6559
8.2		0.6577
8.3	0.6568	
8.5	0.6576	0.6575
8.7	0.6566	
8.9	0.6573	
9.1	0.6580	
9.3	0.6581	0.6581
9.5	0.6587	
9.7	0.6595	
9.9	0.6591	
10.1	0.6602	0.6597
10.3	0.6607	
10.5	0.6605	
10.7	0.6606	
10.9	0.6618	0.6607
11.1	0.6618	
11.3	0.6618	

Table IV (Continued)

 $M_\infty = 0.9$

x/d	P/P_t					
	$\alpha=0$	$\psi=0$	$\alpha=8$	$\psi=8$	$\alpha=-8$	$\psi=-8$
0.2	0.6406	0.6434	0.5441	0.6334	0.7348	0.6311
0.2		0.6451		0.6371		0.6395
0.6		0.4519		0.4456		0.4360
0.8	0.3932		0.3360		0.4553	
0.9	0.3686	0.3702	0.3213	0.3515	0.4239	0.3481
1.0	0.3557		0.3281		0.4069	
1.1	0.3778		0.4309		0.4296	
1.1	0.3815		0.4345		0.4412	
1.2	0.4995		0.5341		0.4723	
1.3	0.5837		0.5931		0.5727	
1.4	0.6036	0.5987	0.6151	0.5855	0.5893	0.5838
1.6	0.5964	0.5963	0.6083	0.5737	0.5922	0.5738
1.8	0.5899		0.5997		0.5920	
1.9	0.5891		0.5978		0.5929	
2.0	0.5870	0.5893	0.5949	0.5696	0.5917	0.5708
2.1	0.5879		0.5946		0.5932	
2.2	0.5880	0.5869	0.5942	0.5675	0.5942	0.5679
2.3	0.5883		0.5942		0.5947	
2.4	0.5884		0.5937		0.5951	
2.5	0.5887		0.5937		0.5956	
2.6	0.5887	0.5866	0.5931	0.5664	0.5959	0.5692
2.8		0.5890		0.5691		0.5708
2.9	0.5886		0.5932		0.5960	
3.0		0.5883		0.5690		0.5723
3.1	0.5887		0.5923		0.5959	
3.2	0.5893	0.5909	0.5929	0.5706	0.5967	0.5740
3.3	0.5886		0.5916		0.5962	
3.4	0.5913	0.5895	0.5952	0.5692	0.5984	0.5712
3.5	0.5899		0.5932		0.5976	
3.6	0.5888	0.5909	0.5919	0.5715	0.5963	0.5738
3.7	0.5900		0.5923		0.5970	
3.8	0.5897	0.5925	0.5921	0.5910	0.5974	0.5780
4.0	0.5893	0.5899	0.5920	0.5708	0.5968	0.5731
4.1	0.5902		0.5924		0.5968	
4.2		0.5902		0.5714		0.5741
4.3	0.5901		0.5918		0.5979	
4.4	0.5903		0.5918		0.5979	
4.5	0.5900		0.5915		0.5975	

4.6	0.5903	0.5905	0.5924	0.5713	0.5977	0.5731
4.7	0.5907		0.5917		0.5981	
4.8	0.5901	0.5907	0.5916	0.5725	0.5972	0.5742
5.0	0.5905	0.5906	0.5908	0.5718	0.5975	0.5744
5.1	0.5901		0.5910		0.5986	
5.2						
5.4		0.5903		0.5731		0.5759
5.5	0.5911		0.5915		0.5988	
5.6	0.5905	0.5917	0.5910	0.5731	0.5979	0.5752
5.7	0.5922		0.5930		0.6000	
6.0	0.5908		0.5907		0.5983	
6.1	0.5910		0.5910		0.5990	
6.2	0.5910	0.5915	0.5907	0.5736	0.5983	0.5762
6.4	0.5918	0.5917	0.5919	0.5745	0.6000	0.5762
6.5	0.5916		0.5916		0.6000	
6.6	0.5923		0.5922		0.6002	
6.7	0.5909		0.5905		0.5984	
6.9	0.5917		0.5912		0.5993	
7.0	0.5915		0.5910		0.5995	
7.1	0.5918		0.5910		0.5995	
7.2	0.5915	0.5923	0.5914	0.5758	0.5990	0.5778
7.3	0.5922		0.5921		0.5999	
7.4	0.5922	0.5910	0.5918	0.5760	0.6000	0.5769
7.5	0.5931		0.5935		0.5974	
7.6	0.5925	0.5917	0.5921	0.5754	0.6000	0.5769
7.7	0.5930		0.5926		0.6009	
7.8	0.5925	0.5930	0.5919	0.5763	0.6004	0.5786
7.9	0.5929		0.5925		0.6011	
8.0	0.5933	0.5920	0.5925	0.5755	0.6004	0.5773
8.2		0.5938		0.5780		0.5798
8.3	0.5929		0.5933		0.6009	
8.5	0.5938	0.5916	0.5930	0.5776	0.6018	0.5799
8.7	0.5929		0.5923		0.6011	
8.9	0.5930		0.5920		0.6011	
9.1	0.5946		0.5935		0.6022	
9.3	0.5944	0.5947	0.5944	0.5796	0.6025	0.5808
9.5	0.5952		0.5943		0.6040	
9.7	0.5964		0.5963			
9.9	0.5957		0.5969		0.6058	
10.1	0.5972	0.5965	0.5971	0.5824	0.6059	0.5842
10.3	0.5979		0.5978		0.6062	
10.5	0.5973		0.5972		0.6053	
10.7	0.5982		0.5978		0.6064	
10.9	0.5998	0.5989	0.6008	0.5855	0.6081	0.5869
11.1	0.6002		0.6014		0.6084	
11.3	0.6006		0.6015		0.6074	

Table IV (Continued)
 $M_\infty = 0.95$

x/d	P/P _t					
	$\alpha=0$	$\psi=0$	$\alpha=8$	$\psi=8$	$\alpha=-8$	$\psi=-8$
0.2	0.6309	0.6342	0.5345	0.6264	0.7277	0.6215
0.2		0.6362		0.6292		0.6307
0.6		0.4342		0.4238		0.4173
0.8	0.3722		0.3178		0.4374	
0.9	0.3453	0.3473	0.3000	0.3362	0.4040	0.3283
1.0	0.3313		0.2937		0.3854	
1.1	0.3487		0.3177		0.4058	
1.1	0.3540		0.4086		0.3191	
1.2	0.3750		0.3456		0.4253	
1.3	0.3939		0.3670		0.4390	
1.4	0.4119	0.4078	0.4004	0.4044	0.4513	0.3945
1.6	0.4449	0.4418	0.5082	0.4117	0.4657	0.4145
1.8	0.5379		0.5784		0.4762	
1.9	0.5601		0.5877		0.4820	
2.0	0.5804	0.5802	0.5898	0.5561	0.5408	0.5665
2.1	0.5825		0.5914		0.5743	
2.2	0.5825	0.5813	0.5908	0.5625	0.5821	0.5633
2.3	0.5682		0.5895		0.5676	
2.4	0.5796		0.5873		0.5847	
2.5	0.5775		0.5849		0.5837	
2.6	0.5755	0.5740	0.5828	0.5561	0.5829	0.5552
2.8		0.5714		0.5537		0.5523
2.9	0.5703		0.5731		0.5776	
3.0		0.5703		0.5505		0.5505
3.1	0.5673		0.5724		0.5753	
3.2	0.5668	0.5690	0.5719	0.5496	0.5750	0.5501
3.3	0.5652		0.5697		0.5734	
3.4	0.5671	0.5647	0.5701	0.5461	0.5749	0.5452
3.5	0.5646		0.5688		0.5729	
3.6	0.5633	0.5649	0.5667	0.5464	0.5707	0.5467
3.7	0.5632		0.5672		0.5714	
3.8	0.5626	0.5582	0.5663	0.5606	0.5710	0.5439
4.0	0.5612	0.5615	0.5649	0.5425	0.5692	0.5436
4.1	0.5614		0.5638		0.5698	
4.2		0.5615		0.5431		0.5441
4.3	0.5616		0.5635		0.5694	
4.4	0.5614	0.5599	0.5640	0.5567	0.5694	
4.5	0.5612		0.5634		0.5687	

4.6	0.5611	0.5611	0.5642	0.5426	0.5694	0.5428
4.7	0.5617		0.5638		0.5692	
4.8	0.5616	0.5610	0.5636	0.5426	0.5673	0.5431
5.0	0.5610	0.5606	0.5633	0.5420	0.5682	0.5425
5.1	0.5605		0.5624		0.5682	
5.2						
5.4		0.5598		0.5435		0.5445
5.5	0.5612		0.5628		0.5692	
5.6	0.5604	0.5611	0.5620	0.5428	0.5680	0.5430
5.7	0.5620		0.5640		0.5696	
6.0	0.5605		0.5619		0.5689	
6.1	0.5616		0.5624		0.5691	
6.2	0.5607	0.5607	0.5617	0.5421	0.5682	0.5442
6.4	0.5625	0.5612	0.5635	0.5433	0.5703	0.5443
6.5	0.5621		0.5629		0.5701	
6.6	0.5619		0.5629		0.5700	
6.7	0.5607		0.5610		0.5680	
6.9	0.5612		0.5617		0.5691	
7.0	0.5610		0.5619		0.5689	
7.1	0.5613		0.5613		0.5687	
7.2	0.5605	0.5617	0.5612	0.5438	0.5683	0.5453
7.3	0.5615		0.5619		0.5692	
7.4	0.5620	0.5597	0.5617	0.5450	0.5696	0.5450
7.5	0.5615		0.5626		0.5692	
7.6	0.5621	0.5606	0.5617	0.5429	0.5700	0.5445
7.7	0.5624		0.5622		0.5705	
7.8	0.5619	0.5622	0.5613	0.5451	0.5699	0.5467
7.9	0.5630		0.5623		0.5705	
8.0	0.5627	0.5612	0.5619	0.5446	0.5702	0.5459
8.2		0.5630		0.5468		0.5484
8.3	0.5623		0.5629		0.5703	
8.5	0.5632	0.5611	0.5625	0.5475	0.5715	0.5483
8.7	0.5630		0.5626		0.5714	
8.9	0.5633		0.5617		0.5709	
9.1	0.5646		0.5634		0.5725	
9.3	0.5641	0.5642	0.5642	0.5482	0.5720	0.5495
9.5	0.5654		0.5645		0.5743	
9.7	0.5667		0.5663			
9.9	0.5674		0.5676		0.5762	
10.1	0.5680	0.5674	0.5679	0.5523	0.5763	0.5533
10.3	0.5687		0.5690		0.5768	
10.5	0.5683		0.5685		0.5763	
10.7	0.5699		0.5702		0.5771	
10.9	0.5717	0.5703	0.5728	0.5559	0.5796	0.5569
11.1	0.5726		0.5744		0.5803	
11.3	0.5728		0.5751		0.5793	

Table IV (Continued)
 $M_{\infty} = 0.975$

x/d	W/P_1					
	$\alpha=0$	$\psi=0$	$\alpha=8$	$\psi=8$	$\alpha=-8$	$\psi=-8$
0.2	0.6286	0.6323	0.5322	0.6231	0.7255	0.6200
0.2		0.6339		0.6261		0.6280
0.6		0.4305		0.4152		0.4141
0.8	0.3677		0.3139		0.4333	
0.9	0.3404	0.3423	0.2940	0.3260	0.3992	0.3238
1.0	0.3255		0.2878		0.3798	
1.1	0.3449		0.3124		0.3976	
1.1	0.3474		0.4023		0.3123	
1.2	0.3674		0.3381		0.4182	
1.3	0.3852		0.3587		0.4310	
1.4	0.4024	0.4013	0.3878	0.4010	0.4405	0.3847
1.6	0.4298	0.4272	0.4433	0.4026	0.4557	0.4034
1.8	0.4568		0.4803		0.4647	
1.9	0.4654		0.4924		0.4684	
2.0	0.4721	0.4727	0.4991	0.4322	0.4697	0.4357
2.1	0.4806		0.5060		0.4735	
2.2	0.4874	0.4854	0.5119	0.4537	0.4768	0.4570
2.3	0.4938					
2.4	0.4989		0.5306		0.4824	
2.5	0.5055		0.5424		0.4858	
2.6	0.5217	0.5118	0.5500	0.4870	0.4921	0.5173
2.8	0.5383	0.5459	0.5415	0.5290	0.5258	0.5364
2.9	0.5523		0.5684		0.5617	
3.0		0.5542		0.5355		0.5407
3.1	0.5550		0.5628		0.5651	
3.2	0.5566	0.5572	0.5638	0.5391	0.5672	0.5439
3.3	0.5568		0.5640		0.5671	
3.4	0.5599	0.5572	0.5662	0.5388	0.5706	0.5417
3.5	0.5586		0.5645		0.5684	
3.6	0.5577	0.5590	0.5631	0.5411	0.5674	0.5428
3.7	0.5583		0.5635		0.5680	
3.8	0.5581	0.5604	0.5628	0.5606	0.5673	0.5474
4.0	0.5567	0.5571	0.5611	0.5281	0.5659	0.5397
4.1	0.5581		0.5641		0.5644	
4.2		0.5566		0.5382		0.5394
4.3	0.5558		0.5599		0.5649	
4.4	0.5551	0.5550	0.5588	0.5547	0.5642	0.5375
4.5	0.5546		0.5576		0.5634	

4.6	0.5537	0.5545	0.5575	0.5360	0.5629	0.5353
4.7	0.5540		0.5576		0.5623	
4.8	0.5517	0.5531	0.5554	0.5345	0.5602	0.5346
5.0	0.5515	0.5523	0.5555	0.5334	0.5598	0.5333
5.1	0.5517		0.5544		0.5592	
5.2						
5.4		0.5493		0.5317		0.5335
5.5	0.5499		0.5535		0.5587	
5.6	0.5488	0.5499	0.5521	0.5315	0.5571	0.5319
5.7	0.5503		0.5537		0.5583	
6.0	0.5481		0.5509		0.5571	
6.1	0.5483		0.5510		0.5564	
6.2	0.5471	0.5472	0.5498	0.5293	0.5557	0.5310
6.4	0.5485	0.5475	0.5512	0.5301	0.5574	0.5311
6.5	0.5478		0.5505		0.5569	
6.6	0.5477		0.5501		0.5562	
6.7	0.5460		0.5480		0.5546	
6.9	0.5465		0.5484		0.5555	
7.0	0.5463		0.5478		0.5551	
7.1	0.5467		0.5478		0.5550	
7.2	0.5460	0.5462	0.5473	0.5296	0.5548	0.5308
7.3	0.5469		0.5478		0.5557	
7.4	0.5464	0.5446	0.5473	0.5298	0.5556	0.5304
7.5	0.5479		0.5528		0.5519	
7.6	0.5469	0.5451	0.5473	0.5292	0.5560	0.5304
7.7	0.5470		0.5476		0.5564	
7.8	0.5467	0.5466	0.5464	0.5301	0.5557	0.5318
7.9	0.5469		0.5475		0.5565	
8.0	0.5466	0.5456	0.5472	0.5293	0.5561	0.5305
8.2		0.5472		0.5310		0.5336
8.3	0.5469		0.5480		0.5558	
8.5	0.5474	0.5453	0.5473	0.5317	0.5571	0.5335
8.7	0.5472		0.5473		0.5573	
8.9	0.5472		0.5466		0.5562	
9.1	0.5486		0.5481		0.5577	
9.3	0.5487	0.5483	0.5495	0.5334	0.5576	0.5346
9.5	0.5495		0.5498		0.5597	
9.7			0.5517		0.5607	
9.9	0.5526		0.5535		0.5623	
10.1	0.5526	0.5523	0.5537	0.5378	0.5624	0.5390
10.3	0.5537		0.5548		0.5633	
10.5	0.5540		0.5552		0.5633	
10.7	0.5557		0.5565		0.5641	
10.9	0.5578	0.5560	0.5598	0.5430	0.5668	0.5439
11.1	0.5592		0.5618		0.5680	
11.3	0.5601		0.5632		0.5677	

Table IV (Continued)

 $M_\infty = 1.0$

x/d	P/P_t					
	$\alpha=0$	$\psi=0$	$\alpha=8$	$\psi=8$	$\alpha=-8$	$\psi=-8$
0.2	0.6269	0.6279	0.5325	0.6219	0.7242	0.6190
0.2		0.6301		0.6260		0.6271
0.6		0.4252		0.4132		0.4176
0.8	0.3646		0.3138		0.4303	
0.9	0.3373	0.3372	0.2942	0.3238	0.3968	0.3234
1.0	0.3220		0.2879		0.3768	
1.1	0.3387		0.3121		0.3957	
1.1	0.3434		0.4027		0.3078	
1.2	0.3629		0.3378		0.4140	
1.3	0.3802		0.3590		0.4262	
1.4	0.3973	0.3917	0.3887	0.3901	0.4380	0.3775
1.6	0.4228	0.4193	0.4431	0.4012	0.4495	0.3976
1.8	0.4484		0.4799		0.4579	
1.9	0.4566		0.4920		0.4612	
2.0	0.4623	0.4616	0.4992	0.4304	0.4626	0.4258
2.1	0.4698		0.5059		0.4655	
2.2	0.4762	0.4732	0.5118	0.4515	0.4684	0.4433
2.3	0.4818		0.5074		0.4714	
2.4	0.4853		0.5316		0.4732	
2.5	0.4891		0.5433		0.4759	
2.6	0.4932	0.4899	0.5500	0.4873	0.4796	0.4674
2.8	0.4910	0.4958	0.5683	0.5276	0.4770	0.4736
2.9	0.4989				0.4954	
3.0		0.4997		0.5353		0.4787
3.1	0.5013		0.5629		0.5029	
3.2	0.5027	0.5045	0.5634	0.5381	0.5072	0.4841
3.3	0.5037		0.5639		0.5085	
3.4	0.5073	0.5042	0.5594	0.5364	0.5143	0.4835
3.5	0.5068		0.5652		0.5132	
3.6	0.5063	0.5086	0.5631	0.5403	0.5129	0.4878
3.7	0.5080		0.5631		0.5147	
3.8	0.5082	0.5008	0.5628	0.5031	0.5149	0.5013
4.0	0.5087	0.5093	0.5607	0.5379	0.5165	0.4893
4.1						
4.2		0.5114		0.5366		0.4922
4.3	0.5114		0.5599		0.5183	
4.4	0.5112	0.5085	0.5586	0.5160	0.5189	0.4941
4.5	0.5115		0.5576		0.5194	

4.6	0.5124	0.5218	0.5576	0.5338	0.5200	0.4921
4.7	0.5193		0.5587		0.5204	
4.8	0.5273	0.5346	0.5557	0.5337	0.5207	0.4940
5.0	0.5364	0.5378	0.5565	0.5321	0.5214	0.4998
5.1	0.5394		0.5556		0.5220	
5.2						
5.4		0.5397		0.5350		0.5229
5.5	0.5424		0.5545		0.5479	
5.6	0.5418	0.5421	0.5529	0.5307	0.5491	0.5248
5.7	0.5435		0.5547		0.5526	
6.0	0.5426		0.5524		0.5514	
6.1	0.5429		0.5520		0.5520	
6.2	0.5415	0.5418	0.5506	0.5285	0.5513	0.5273
6.4	0.5433	0.5413	0.5520	0.5293	0.5533	0.5270
6.5	0.5426		0.5511		0.5531	
6.6	0.5417		0.5508		0.5525	
6.7	0.5401		0.5484		0.5504	
6.9	0.5406		0.5490		0.5511	
7.0	0.5399		0.5429		0.5504	
7.1	0.5401		0.5488		0.5507	
7.2	0.5389	0.5383	0.5476	0.5296	0.5369	0.5257
7.3	0.5392		0.5483		0.5504	
7.4	0.5388	0.5365	0.5478	0.5295	0.5498	0.5242
7.5	0.5396		0.5457		0.5512	
7.6	0.5382	0.5365	0.5479	0.5287	0.5494	0.5235
7.7	0.5380		0.5479		0.5497	
7.8	0.5369	0.5367	0.5472	0.5303	0.5481	0.5239
7.9	0.5369		0.5478		0.5487	
8.0	0.5362	0.5346	0.5473	0.5299	0.5476	0.5220
8.2		0.5354		0.5296		0.5235
8.3	0.5355		0.5474		0.5476	
8.5	0.5346	0.5348	0.5478	0.5290	0.5461	0.5215
8.7	0.5337		0.5481		0.5447	
8.9	0.5326		0.5466		0.5433	
9.1	0.5342		0.5486		0.5445	
9.3	0.5328	0.5335	0.5492	0.5332	0.5441	0.5191
9.5	0.5347		0.5498		0.5452	
9.7	0.5362		0.5520		0.5459	
9.9	0.5378		0.5533		0.5476	
10.1	0.5383	0.5378	0.5540	0.5378	0.5479	0.5243
10.3	0.5398		0.5551		0.5490	
10.5	0.5405		0.5549		0.5495	
10.7	0.5427		0.5565		0.5515	
10.9	0.5451	0.5434	0.5599	0.5422	0.5546	0.5319
11.1	0.5469		0.5619		0.5565	
11.3	0.5482		0.5623		0.5569	

Table IV (Continued)

 $M_\infty = 1.025$

x/d	P/P_t					
	$\alpha=0$	$\psi=0$	$\alpha=8$	$\psi=8$	$\alpha=-8$	$\psi=-8$
0.2	0.6268	0.6279	0.5293	0.6220	0.7237	0.6176
0.2		0.6296		0.6255		0.6253
0.6		0.4250		0.4123		0.4158
0.8	0.3634		0.3101		0.4292	
0.9	0.3361	0.3356	0.2893	0.3234	0.3955	0.3206
1.0	0.3210		0.2819		0.3756	
1.1	0.3372		0.3060		0.3944	
1.1	0.3421		0.3968		0.3074	
1.2	0.3614		0.3312		0.4123	
1.3	0.3791		0.3518		0.4250	
1.4	0.3951	0.3893	0.3793	0.3905	0.4352	0.3787
1.6	0.4213	0.4172	0.4302	0.3953	0.4478	0.3949
1.8	0.4462		0.4641		0.4556	
1.9	0.4541		0.4756		0.4586	
2.0	0.4599	0.4574	0.4826	0.4204	0.4603	0.4222
2.1	0.4671		0.4882		0.4632	
2.2	0.4732	0.4682	0.4924	0.4380	0.4664	0.4381
2.3	0.4784		0.4953		0.4689	
2.4	0.4819		0.4973		0.4710	
2.5	0.4850		0.4989		0.4731	
2.6	0.4891	0.4834	0.5009	0.4635	0.4761	0.4615
2.8		0.4882		0.4691		0.4672
2.9						
3.0		0.4924		0.4734		0.4717
3.1	0.4948		0.5014		0.4974	
3.2	0.4960	0.4956	0.5020	0.4784	0.5009	0.4759
3.3	0.4964		0.5019		0.5021	
3.4	0.4996	0.4940	0.5029	0.4788	0.5063	0.4750
3.5	0.4989		0.5026		0.5063	
3.6	0.4971	0.4968	0.5026	0.4828	0.5047	0.4776
3.7	0.4982		0.5031		0.5065	
3.8	0.4975	0.5021	0.5035	0.5060	0.5067	0.4974
4.0	0.4982	0.4953	0.5014	0.4819	0.5071	0.4770
4.1						
4.2		0.4972		0.4838		0.4792
4.3	0.4976		0.5031		0.5077	
4.4	0.4974		0.5023		0.5071	
4.5	0.4972		0.5018		0.5066	

4.6	0.4975	0.4966	0.5017	0.4827	0.5071	0.4761
4.7	0.4969		0.5040		0.5056	
4.8	0.4973	0.4970	0.5020	0.4825	0.5057	0.4769
5.0	0.4961	0.4972	0.5025	0.4806	0.5052	0.4765
5.1	0.4966		0.5021		0.5046	
5.2						
5.4		0.4965		0.4772		0.4761
5.5			0.5010		0.5043	
5.6	0.4953	0.4963	0.4996	0.4798	0.5035	0.4762
5.7	0.4962		0.5008		0.5059	
6.0	0.4962		0.4990		0.5037	
6.1	0.4963		0.4975		0.5037	
6.2	0.4968	0.4952	0.4968	0.4758	0.5030	0.4760
6.4	0.5007	0.4974	0.4980	0.4756	0.5042	0.4750
6.5	0.5008		0.4971		0.5038	
6.6	0.5011		0.4964		0.5035	
6.7	0.4999		0.4940		0.5010	
6.9	0.5014		0.4937		0.5014	
7.0	0.5019		0.4930		0.5010	
7.1	0.5030		0.4922		0.5015	
7.2	0.4996	0.5032	0.4930	0.4732	0.5005	0.4785
7.3	0.5030		0.4924		0.5027	
7.4	0.5031	0.5037	0.4916	0.4720	0.5027	0.4812
7.5						
7.6	0.5058	0.5048	0.4911	0.4725	0.5031	0.4810
7.7	0.5096		0.4913		0.5040	
7.8	0.5167	0.5187	0.4902	0.4726	0.5042	0.4828
7.9	0.5283		0.4909		0.5059	
8.0	0.5357	0.5362	0.4913	0.4716	0.5067	0.4831
8.2		0.5428		0.4728		0.4903
8.3			0.5090		0.5042	
8.5	0.5435	0.5431	0.4978	0.4869	0.5192	0.5213
8.7	0.5438		0.5014		0.5447	
8.9	0.5413		0.5081		0.5518	
9.1	0.5419		0.5356		0.5540	
9.3	0.5394	0.5390	0.5344	0.4833	0.5470	0.5301
9.5	0.5393		0.5459		0.5546	
9.7	0.5368		0.5483		0.5531	
9.9	0.5361		0.5496		0.5530	
10.1	0.5340	0.5333	0.5482	0.5398	0.5511	0.5264
10.3	0.5324		0.5477		0.5497	
10.5	0.5295		0.5465		0.5471	
10.7	0.5290		0.5518		0.5471	
10.9	0.5289	0.5268	0.5524	0.5394	0.5469	0.5237
11.1	0.5301		0.5544		0.5476	
11.3	0.5330		0.5543		0.5471	

Table IV (Continued)
 $M_\infty = 1.05$

x/d	P/P_t					
	$\alpha=0$	$\psi=0$	$\alpha=8$	$\psi=8$	$\alpha=-8$	$\psi=-8$
0.2	0.6240	0.6264	0.5277	0.6163	0.7217	0.6168
0.2		0.6286		0.6195		0.6244
0.6		0.4224		0.4051		0.4129
0.8	0.3586		0.3069		0.4253	
0.9	0.3314	0.3332	0.2869	0.3164	0.3914	0.3184
1.0	0.3162		0.2779		0.3712	
1.1	0.3323		0.3023		0.3894	
1.1	0.3364		0.3923		0.3015	
1.2	0.3554		0.3272		0.4065	
1.3	0.3722		0.3461		0.4185	
1.4	0.3880	0.3776	0.3722	0.3770	0.4292	0.3714
1.6	0.4121	0.4099	0.4219	0.3858	0.4404	0.3878
1.8	0.4364		0.4532		0.4478	
1.9	0.4442		0.4648		0.4507	
2.0	0.4487	0.4493	0.4712	0.4086	0.4517	0.4121
2.1	0.4558		0.4773		0.4542	
2.2	0.4615	0.4585	0.4814	0.4232	0.4570	0.4262
2.3	0.4668		0.4847		0.4590	
2.4	0.4703		0.4865		0.4614	
2.5	0.4733		0.4881		0.4632	
2.6	0.4772	0.4737	0.4905	0.4482	0.4651	0.4495
2.8		0.4796		0.4538		0.4565
2.9	0.4804		0.4825		0.4785	
3.0		0.4840		0.4581		0.4605
3.1	0.4841		0.4910		0.4832	
3.2	0.4857	0.4873	0.4914	0.4615	0.4873	0.4655
3.3	0.4861		0.4909		0.4890	
3.4	0.4884	0.4859	0.4924	0.4619	0.4947	0.4649
3.5	0.4887		0.4933		0.4939	
3.6	0.4880	0.4890	0.4920	0.4662	0.4939	0.4689
3.7	0.4889		0.4934		0.4956	
3.8	0.4882	0.4868	0.4931	0.4862	0.4960	0.4900
4.0	0.4882	0.4880	0.4941	0.4669	0.4968	0.4685
4.1	0.4937		0.4932		0.5031	
4.2		0.4888		0.4688		0.4706
4.3	0.4895		0.4953		0.4991	
4.4	0.4902		0.4958		0.4987	
4.5	0.4904		0.4959		0.4986	

4.6	0.4909	0.4906	0.4967	0.4699	0.4990	0.4696
4.7	0.4919		0.4952		0.4994	
4.8	0.4932	0.4923	0.4956	0.4713	0.4993	0.4715
5.0	0.4956	0.4945	0.4970	0.4737	0.4995	0.4721
5.1	0.4961		0.4986		0.4992	
5.2						
5.4		0.4961		0.4752		0.4731
5.5	0.4965		0.4995		0.5008	
5.6	0.4959	0.4988	0.4986	0.4767	0.5000	0.4742
5.7	0.4986		0.5006		0.5046	
6.0	0.4995		0.4990		0.5035	
6.1	0.4989		0.4986		0.5031	
6.2	0.4991	0.4983	0.4981	0.4769	0.5044	0.4830
6.4	0.5037	0.4986	0.4993	0.4761	0.5124	0.4855
6.5	0.5041		0.4983		0.5136	
6.6	0.5033		0.4975		0.5153	
6.7	0.5005		0.4940		0.5140	
6.9	0.4984		0.4920		0.5131	
7.0	0.4973		0.4908		0.5120	
7.1	0.4963		0.4903		0.5103	
7.2	0.4944	0.4965		0.4692	0.5081	0.4785
7.3	0.4940		0.4891		0.5078	
7.4	0.4922	0.4915	0.4879	0.4671	0.5060	0.4756
7.5	0.4940		0.4897		0.5024	
7.6	0.4899	0.4895	0.4864	0.4685	0.5031	0.4725
7.7	0.4889		0.4863		0.5033	
7.8	0.4869	0.4877	0.4849	0.4676	0.5013	0.4719
7.9	0.4860		0.4852		0.5028	
8.0	0.4843	0.4839	0.4839	0.4644	0.5034	0.4697
8.2		0.4821		0.4635		0.4715
8.3	0.4817		0.4814		0.4965	
8.5	0.4800	0.4790	0.4808	0.4619	0.4961	0.4668
8.7	0.4773		0.4794		0.4921	
8.9	0.4752		0.4758		0.4882	
9.1	0.4750		0.4767		0.4876	
9.3	0.4742	0.4736	0.4750	0.4563	0.4857	0.4598
9.5	0.4753		0.4748		0.4849	
9.7	0.4765		0.4761		0.4846	
9.9	0.4783		0.4778		0.4847	
10.1	0.4798	0.4787	0.4779	0.4607	0.4838	0.4591
10.3	0.4812		0.4795		0.4856	
10.5	0.4801		0.4786		0.4855	
10.7	0.4801		0.4781		0.4859	
10.9	0.4811	0.4802	0.4798	0.4645	0.4886	0.4618
11.1	0.4811		0.4837		0.4904	
11.3	0.4836				0.4895	

Table IV (Continued)
 $M_{\infty}=1.1$

x/d	P/P_t					
	$\alpha=0$	$\psi=0$	$\alpha=8$	$\psi=8$	$\alpha=-8$	$\psi=-8$
0.2	0.6144	0.6158	0.5169	0.6072	0.7135	0.6077
0.2		0.6180		0.6117		0.6150
0.6		0.4086		0.3918		0.3925
0.8	0.3449		0.2933		0.4125	
0.9	0.3172	0.3182	0.2730	0.3044	0.3775	0.3042
1.0	0.3009		0.2627		0.3571	
1.1	0.3146		0.2857		0.3725	
1.1	0.3191		0.3764		0.2840	
1.2	0.3359		0.3089		0.3874	
1.3	0.3506		0.3255		0.3995	
1.4	0.3651	0.3728	0.3500	0.3765	0.4039	0.3648
1.6	0.3862	0.3863	0.3946	0.3631	0.4189	0.3630
1.8	0.4065		0.4234		0.4248	
1.9	0.4156		0.4358		0.4278	
2.0	0.4207	0.4228	0.4408	0.3815	0.4279	0.3839
2.1	0.4268		0.4475		0.4303	
2.2	0.4321	0.4312	0.4522	0.3929	0.4322	0.3945
2.3	0.4369		0.4560		0.4335	
2.4	0.4408		0.4588		0.4356	
2.5	0.4444		0.4606		0.4369	
2.6	0.4497	0.4469	0.4627	0.4183	0.4374	0.4157
2.8		0.4538		0.4256		0.4248
2.9						
3.0		0.4577		0.4298		0.4293
3.1	0.4602		0.4683		0.4539	
3.2	0.4616	0.4613	0.4697	0.4332	0.4586	0.4338
3.3	0.4614		0.4686		0.4616	
3.4	0.4632	0.4602	0.4724	0.4355	0.4667	0.4334
3.5	0.4628		0.4685		0.4676	
3.6	0.4615	0.4635	0.4668	0.4419	0.4670	0.4388
3.7	0.4630		0.4672		0.4682	
3.8	0.4638		0.4672		0.4688	
4.0	0.4637	0.4643	0.4684	0.4415	0.4712	0.4413
4.1						
4.2		0.4710		0.4426		0.4451
4.3	0.4633		0.4671		0.4716	

4.6	0.4633	0.4638	0.4680	0.4438	0.4728	0.4447
4.7	0.4655		0.4681		0.4734	
4.8	0.4657	0.4636	0.4678	0.4419	0.4735	0.4457
5.0	0.4680	0.4674	0.4689	0.4419	0.4746	0.4460
5.1	0.4686		0.4702		0.4759	
5.2						
5.4		0.4701		0.4477		0.4484
5.5	0.4682		0.4704		0.4752	
5.6	0.4672	0.4712	0.4698	0.4494	0.4744	0.4474
5.7	0.4690		0.4725		0.4793	
6.0	0.4681		0.4709		0.4809	
6.1	0.4677		0.4702		0.4810	
6.2	0.4670	0.4661	0.4695	0.4488	0.4805	0.4540
6.4	0.4666	0.4656	0.4709	0.4467	0.4811	0.4522
6.5	0.4652		0.4706		0.4786	
6.6	0.4644		0.4700		0.4770	
6.7	0.4618		0.4670		0.4734	
6.9	0.4622		0.4659		0.4723	
7.0	0.4627		0.4658		0.4720	
7.1	0.4637		0.4646		0.4716	
7.2		0.4627	0.4654	0.4430	0.4714	0.4471
7.3	0.4639		0.4647		0.4730	
7.4	0.4642	0.4647	0.4641	0.4446	0.4736	0.4463
7.5	0.4666		0.4791		0.4702	
7.6	0.4662	0.4667	0.4641	0.4464	0.4730	0.4462
7.7	0.4678		0.4651		0.4737	
7.8	0.4691	0.4706	0.4650	0.4477	0.4725	0.4470
7.9	0.4713		0.4665		0.4729	
8.0	0.4726	0.4704	0.4670	0.4486	0.4724	0.4458
8.2		0.4758		0.4510		0.4501
8.3	0.4725		0.4716		0.4766	
8.5	0.4736	0.4747	0.4710	0.4534	0.4771	0.4556
8.7	0.4716		0.4697		0.4796	
8.9	0.4687		0.4682		0.4816	
9.1	0.4696		0.4691		0.4853	
9.3	0.4688	0.4667	0.4697	0.4554	0.4814	0.4542
9.5	0.4670		0.4689		0.4851	
9.7	0.4669		0.4698		0.4847	
9.9	0.4671		0.4700		0.4795	
10.1	0.4665	0.4645	0.4685	0.4496	0.4800	0.4534
10.3	0.4665		0.4681		0.4800	
10.5	0.4651		0.4685		0.4770	
10.7	0.4650		0.4660		0.4773	
10.9	0.4660	0.4657	0.4668	0.4505	0.4770	0.4507
11.1	0.4668		0.4661		0.4761	
11.3	0.4678		0.4636		0.4743	

Table IV (Continued)

 $M_{\infty} = 1.15$

x/d	R/P_t					
	$\alpha=0$	$\psi=0$	$\alpha=8$	$\psi=8$	$\alpha=-8$	$\psi=-8$
0.2	0.6048	0.6068	0.5075	0.5988	0.7059	0.5973
0.2		0.6090		0.6035		0.6065
0.6		0.3972		0.3801		0.3805
0.8	0.3321		0.2801		0.4007	
0.9	0.3046	0.3065	0.2599	0.2929	0.3665	0.2928
1.0	0.2882		0.2489		0.3448	
1.1	0.3007		0.2683		0.3598	
1.1	0.3055		0.3616		0.2693	
1.2	0.3200		0.2905		0.3732	
1.3	0.3338		0.3062		0.3825	
1.4	0.3472	0.3407	0.3261	0.3416	0.3907	0.3404
1.6	0.3668	0.3647	0.3673	0.3437	0.4001	0.3436
1.8	0.3838		0.3959		0.4051	
1.9	0.3925		0.4077		0.4079	
2.0	0.3966	0.3967	0.4143	0.3568	0.4079	0.3594
2.1	0.4018		0.4207		0.4097	
2.2	0.4052	0.4032	0.4246	0.3634	0.4111	0.3670
2.3	0.4083		0.4278		0.4122	
2.4	0.4109		0.4299		0.4133	
2.5	0.4139		0.4321		0.4145	
2.6	0.4165	0.4130	0.4344	0.3873	0.4150	0.3866
2.8		0.4194		0.3931		0.3954
2.9						
3.0		0.4244		0.3948		0.3994
3.1	0.4263		0.4343		0.4208	
3.2	0.4266	0.4301	0.4341	0.3981	0.4251	0.4034
3.3	0.4268		0.4334		0.4271	
3.4	0.4297	0.4303	0.4391	0.3983	0.4331	0.4022
3.5	0.4298		0.4376		0.4325	
3.6	0.4305	0.4382	0.4350	0.4071	0.4319	0.4070
3.7	0.4332		0.4372		0.4349	
3.8	0.4357		0.4375		0.4356	
4.0	0.4363	0.4435	0.4414	0.4097	0.4369	0.4114
4.1						
4.2		0.4449		0.4134		0.4175
4.3	0.4379		0.4409		0.4463	
4.4	0.4381	0.4388	0.4427	0.4395	0.4488	0.4428
4.5	0.4382		0.4437		0.4488	

4.6	0.4384	0.4415	0.4450	0.4233	0.4488	0.4210
4.7	0.4419		0.4462		0.4482	
4.8	0.4422	0.4414	0.4460	0.4233	0.4468	0.4245
5.0	0.4449	0.4419	0.4484	0.4211	0.4472	0.4231
5.1	0.4460		0.4487		0.4502	
5.2						
5.4		0.4410		0.4218		0.4233
5.5	0.4489		0.4486		0.4532	
5.6	0.4492	0.4427	0.4468	0.4221	0.4515	0.4242
5.7	0.4508		0.4480		0.4541	
6.0	0.4446		0.4461		0.4537	
6.1	0.4427		0.4459		0.4534	
6.2	0.4396	0.4390	0.4447	0.4205	0.4534	0.4211
6.4	0.4364	0.4430	0.4448	0.4192	0.4580	0.4217
6.5	0.4341		0.4430		0.4584	
6.6	0.4326		0.4421		0.4590	
6.7	0.4294		0.4393		0.4566	
6.9	0.4305		0.4386		0.4564	
7.0	0.4309		0.4379		0.4545	
7.1	0.4324		0.4373		0.4518	
7.2		0.4326	0.4373	0.4186	0.4477	0.4180
7.3	0.4333		0.4375		0.4475	
7.4	0.4328	0.4311	0.4369	0.4144	0.4452	0.4166
7.5	0.4328		0.4359		0.4504	
7.6	0.4339	0.4368	0.4375	0.4132	0.4418	0.4149
7.7	0.4352		0.4381		0.4416	
7.8	0.4366	0.4397	0.4361	0.4139	0.4395	0.4159
7.9	0.4383		0.4357		0.4398	
8.0	0.4396	0.4371	0.4342	0.4133	0.4395	0.4145
8.2		0.4389		0.4162		0.4185
8.3	0.4385		0.4379		0.4454	
8.5	0.4372	0.4383	0.4373	0.4199	0.4449	0.4178
8.7	0.4350		0.4361		0.4472	
8.9	0.4367		0.4330		0.4456	
9.1	0.4415		0.4372		0.4486	
9.3	0.4392	0.4393	0.4389	0.4196	0.4504	0.4211
9.5	0.4402		0.4414		0.4513	
9.7	0.4426		0.4417			
9.9	0.4451		0.4407		0.4486	
10.1	0.4441	0.4422	0.4381	0.4260	0.4511	0.4254
10.3	0.4426		0.4377		0.4524	
10.5	0.4417		0.4371		0.4547	
10.7	0.4409		0.4390		0.4525	
10.9	0.4410	0.4430	0.4405	0.4222	0.4550	0.4301
11.1	0.4432		0.4402		0.4577	
11.3	0.4433		0.4394		0.4550	

Table IV (Continued)
 $M_{\infty}=1.2$

x/d	P/P_t					
	$\alpha=0$	$\psi=0$	$\alpha=8$	$\psi=8$	$\alpha=-8$	$\psi=-8$
0.2	0.5946	0.5952	0.4950	0.5868	0.6956	0.5855
0.2		0.6014		0.5942		0.5967
0.6		0.3838		0.3665		0.3668
0.8	0.3199		0.2660		0.3867	
0.9	0.2925	0.2931	0.2457	0.2800	0.3525	0.2784
1.0	0.2756		0.2355		0.3312	
1.1	0.2887		0.2489		0.3441	
1.1	0.2906		0.3456		0.2541	
1.2	0.3048		0.2721		0.3569	
1.3	0.3171		0.2891		0.3666	
1.4	0.3289	0.3404	0.3027	0.3402	0.3723	0.3333
1.6	0.3460	0.3473	0.3434	0.3250	0.3826	0.3253
1.8	0.3581		0.3677		0.3849	
1.9	0.3663		0.3767		0.3874	
2.0	0.3711	0.3731	0.3845	0.3376	0.3881	0.3419
2.1	0.3769		0.3922		0.3908	
2.2	0.3805	0.3782	0.3981	0.3412	0.3922	0.3466
2.3	0.3839		0.4023		0.3748	
2.4	0.3865		0.4038		0.3948	
2.5	0.3886		0.4050		0.3952	
2.6	0.3897	0.3867	0.4057	0.3565	0.3938	0.3588
2.8		0.3961		0.3653		0.3676
2.9						
3.0		0.4023		0.3739		0.3757
3.1	0.3979		0.4080		0.3917	
3.2	0.4009	0.4027	0.4094	0.3748	0.3931	0.3772
3.3	0.4021		0.4092		0.3946	
3.4	0.4058	0.3981	0.4111	0.3739	0.3994	0.3736
3.5	0.4055		0.4089		0.4006	
3.6	0.4058	0.4033	0.4122	0.3787	0.4035	0.3784
3.7	0.4070		0.4124		0.4073	
3.8	0.4058		0.4102		0.4094	
4.0	0.4037	0.4058	0.4075	0.3821	0.4104	0.3818
4.1						
4.2		0.4066		0.3863		0.3855
4.3	0.4051		0.4135		0.4109	
4.4	0.4048	0.4194	0.4133	0.4212	0.4127	0.4301
4.5	0.4055		0.4134		0.4128	

4.6	0.4085	0.4039	0.4135	0.3840	0.4131	0.3856
4.7	0.4104		0.4145		0.4139	
4.8	0.4101	0.4058	0.4139	0.3851	0.4154	0.3859
5.0	0.4100	0.4091	0.4145	0.3878	0.4196	0.3865
5.1	0.4099		0.4168		0.4198	
5.2						
5.4		0.4107		0.3885		0.3901
5.5	0.4138		0.4170		0.4199	
5.6	0.4141	0.4116	0.4153	0.3899	0.4188	0.3899
5.7	0.4161		0.4158		0.4208	
6.0	0.4106		0.4129		0.4253	
6.1	0.4092		0.4136		0.4267	
6.2	0.4092	0.4119	0.4136	0.3926	0.4240	0.3947
6.4	0.4136	0.4138	0.4181	0.3918	0.4226	0.3913
6.5	0.4131		0.4197		0.4215	
6.6	0.4136		0.4211		0.4212	
6.7	0.4116		0.4179		0.4180	
6.9	0.4136		0.4158		0.4214	
7.0	0.4143		0.4141		0.4224	
7.1	0.4157		0.4136		0.4237	
7.2	0.4152	0.4135	0.4117	0.3929	0.4228	0.3945
7.3	0.4157		0.4131		0.4249	
7.4	0.4151	0.4104	0.4124	0.3921	0.4261	0.3926
7.5						
7.6	0.4159	0.4097	0.4143	0.3915	0.4278	0.3941
7.7	0.4152		0.4146		0.4270	
7.8	0.4136	0.4129	0.4129	0.3917	0.4249	0.3977
7.9	0.4122		0.4137		0.4258	
8.0	0.4105	0.4143	0.4142	0.3926	0.4256	0.3953
8.2		0.4140		0.3953		0.3959
8.3	0.4114		0.4147		0.4226	
8.5	0.4126	0.4107	0.4116	0.3976	0.4235	0.3955
8.7	0.4125		0.4110		0.4251	
8.9	0.4107		0.4114		0.4223	
9.1	0.4142		0.4117		0.4223	
9.3	0.4130	0.4127	0.4139	0.3957	0.4176	0.3909
9.5	0.4135		0.4092		0.4192	
9.7	0.4143		0.4091		0.4221	
9.9	0.4130		0.4111		0.4237	
10.1	0.4092	0.4081	0.4115	0.3917	0.4272	0.3936
10.3	0.4075		0.4079		0.4250	
10.5	0.4042		0.4064		0.4217	
10.7	0.4056		0.4072		0.4189	
10.9	0.4102	0.4074	0.4066	0.3911	0.4181	0.3946
11.1	0.4114		0.4065		0.4167	
11.3	0.4127		0.4052		0.4142	

Table IV (Continued)
 $M_\infty = 1.3$

x/d	P/P_t					
	$\alpha=0$	$\psi=0$	$\alpha=8$	$\psi=8$	$\alpha=-8$	$\psi=-8$
0.2	0.5614	0.5658	0.4619	0.5594	0.6624	0.5551
0.2		0.5660		0.5597		0.5622
0.6		0.3478		0.3350		0.3345
0.8	0.2830		0.2321		0.3486	
0.9	0.2571	0.2632	0.2144	0.2505	0.3160	0.2475
1.0	0.2412		0.2042		0.2954	
1.1	0.2514		0.2156		0.3040	
1.1	0.2543		0.3094		0.2207	
1.2	0.2681		0.2360		0.3162	
1.3	0.2797		0.2524		0.3238	
1.4	0.2907	0.2994	0.2673	0.2980	0.3297	0.3053
1.6	0.3054	0.2954	0.2948	0.2799	0.3365	0.2837
1.8	0.3131		0.3152		0.3417	
1.9	0.3162		0.3239		0.3436	
2.0	0.3184	0.3210	0.3298	0.2888	0.3429	0.2901
2.1	0.3237		0.3346		0.3461	
2.2	0.3282	0.3266	0.3382	0.2903	0.3491	0.2921
2.3	0.3302		0.3235		0.3491	
2.4	0.3330		0.3465		0.3488	
2.5	0.3363		0.3495		0.3488	
2.6	0.3403	0.3351	0.3533	0.3019	0.3490	0.3050
2.8		0.3416		0.3064		0.3144
2.9						
3.0		0.3447		0.3145		0.3152
3.1	0.3506		0.3589		0.3480	
3.2	0.3520	0.3493	0.3613	0.3197	0.3500	0.3167
3.3	0.3524		0.3622		0.3509	
3.4	0.3557	0.3476	0.3600	0.3185	0.3546	0.3163
3.5	0.3568		0.3613		0.3538	
3.6	0.3544	0.3523	0.3598	0.3231	0.3534	0.3241
3.7	0.3531		0.3604		0.3548	
3.8	0.3522		0.3598		0.3539	
4.0	0.3543	0.3575	0.3598	0.3273	0.3556	0.3315
4.1						
4.2		0.3569		0.3339		0.3328
4.3	0.3538		0.3613		0.3591	
4.4	0.3537		0.3604		0.3605	
4.5	0.3540		0.3600		0.3626	

4.6	0.3551	0.3605	0.3605	0.3373	0.3636	0.3369
4.7	0.3563		0.3600		0.3632	
4.8	0.3560	0.3578	0.3597	0.3407	0.3616	0.3438
5.0	0.3559	0.3546	0.3616	0.3370	0.3642	0.3412
5.1	0.3557		0.3620		0.3653	
5.2						
5.4		0.3510		0.3326		0.3357
5.5	0.3554		0.3589		0.3733	
5.6	0.3530	0.3527	0.3567	0.3292	0.3723	0.3312
5.7	0.3539		0.3579		0.3715	
6.0	0.3495		0.3546		0.3627	
6.1	0.3507		0.3544		0.3618	
6.2	0.3530	0.3577	0.3554	0.3367	0.3618	0.3395
6.4	0.3590		0.3607		0.3602	
6.5	0.3601		0.3623		0.3603	
6.6	0.3600		0.3648		0.3646	
6.7	0.3574		0.3614		0.3655	
6.9	0.3558		0.3588		0.3724	
7.0	0.3553		0.3572		0.3714	
7.1	0.3561		0.3565		0.3696	
7.2		0.3585	0.3557	0.3370	0.3678	0.3383
7.3	0.3545		0.3591		0.3678	
7.4	0.3532	0.3559	0.3581	0.3346	0.3664	0.3380
7.5			0.3586		0.3744	
7.6	0.3574	0.3520	0.3596	0.3364	0.3648	0.3387
7.7	0.3598		0.3581		0.3658	
7.8	0.3587	0.3564	0.3565	0.3339	0.3667	0.3416
7.9	0.3579		0.3550		0.3696	
8.0	0.3566	0.3572	0.3547	0.3341	0.3699	0.3396
8.2		0.3581		0.3413		0.3420
8.3	0.3624		0.3600		0.3674	
8.5	0.3674	0.3586	0.3657	0.3480	0.3685	0.3416
8.7	0.3656		0.3645		0.3678	
8.9	0.3593		0.3594		0.3776	
9.1	0.3605		0.3603		0.3797	
9.3	0.3589	0.3633	0.3573	0.3462	0.3743	0.3432
9.5	0.3625		0.3601		0.3752	
9.7	0.3652		0.3637		0.3742	
9.9	0.3642		0.3639		0.3723	
10.1	0.3635	0.3617	0.3617	0.3447	0.3738	0.3462
10.3	0.3679		0.3602		0.3745	
10.5	0.3676		0.3603		0.3768	
10.7	0.3650		0.3589		0.3761	
10.9	0.3622	0.3647	0.3612	0.3427	0.3765	0.3448
11.1	0.3613		0.3621		0.3744	
11.3	0.3599		0.3596		0.3742	

$M_{\infty}=1.4$

x/d	P/P _t	
	$\alpha=0$	$\psi=0$
0.2	0.5362	0.5324
0.2		0.5433
0.6		0.3121
0.8	0.2524	
0.9	0.2783	0.2286
1.0	0.2119	
1.1	0.2204	
1.1	0.2238	
1.2	0.2300	
1.3	0.2377	
1.4	0.2454	
1.6	0.2575	0.2566
1.8	0.2670	
1.9	0.2712	
2.0	0.2745	0.2771
2.1	0.2807	
2.2	0.2854	0.2823
2.3		
2.4	0.2932	
2.5	0.2965	
2.6	0.2980	0.2932
2.8		0.2968
2.9		
3.0		0.2985
3.1	0.2998	
3.2	0.3008	0.2992
3.3	0.3006	
3.4	0.3020	0.3031
3.5	0.3013	
3.6	0.3003	0.3087
3.7	0.3037	
3.8	0.3062	
4.0	0.3091	0.3033
4.1		
4.2		0.3054
4.3	0.3071	
4.4	0.3060	
4.5	0.3061	

Table IV (Concluded)

 $M_{\infty}=1.5$

x/d	P/P _t	
	$\alpha=0$	$\psi=0$
0.2	0.5034	0.5035
0.2		0.5081
0.6		0.2831
0.8	0.2249	
0.9	0.2024	0.2080
1.0	0.1893	
1.1	0.1937	
1.1	0.1971	
1.2	0.2028	
1.3	0.2094	
1.4	0.2137	
1.6	0.2251	0.2254
1.8	0.2321	
1.9	0.2355	
2.0	0.2388	0.2400
2.1	0.2420	
2.2	0.2457	0.2454
2.3	0.2481	
2.4	0.2516	
2.5	0.2561	
2.6	0.2584	0.2510
2.8		0.2567
2.9		
3.0		0.2585
3.1	0.2610	
3.2	0.2614	0.2607
3.3	0.2628	
3.4	0.2651	0.2596
3.5	0.2638	
3.6	0.2639	0.2664
3.7	0.2641	
3.8	0.2628	
4.0	0.2604	0.2665
4.1		
4.2		0.2685
4.3	0.2631	
4.4	0.2631	
4.5	0.2641	

 $M_{\infty}=1.6$

x/d	P/P _t	
	$\alpha=0$	$\psi=0$
0.2	0.4649	0.4636
0.2		0.4686
0.6		0.2455
0.8	0.1957	
0.9	0.1764	0.1708
1.0	0.1621	
1.1	0.1656	
1.1	0.1659	
1.2	0.1758	
1.3	0.1763	
1.4	0.1923	
1.6	0.1889	0.1909
1.8	0.1956	
1.9	0.2006	
2.0	0.2020	0.2099
2.1	0.2070	
2.2	0.2128	0.2111
2.3	0.2144	
2.4	0.2144	
2.5	0.2156	
2.6	0.2173	0.2175
2.8		0.2210
2.9		
3.0		0.2207
3.1	0.2171	
3.2	0.2171	0.2190
3.3	0.2195	
3.4		0.2197
3.5	0.2280	
3.6	0.2246	0.2313
3.7	0.2269	
3.8	0.2284	
4.0	0.2311	0.2294
4.1		
4.2		0.2313
4.3	0.2259	
4.4	0.2264	
4.5	0.2273	

4.6	0.3070	0.3103
4.7	0.3068	
4.8	0.3076	0.3061
5.0	0.3083	0.3040
5.1	0.3074	
5.2		
5.4		0.3048
5.5	0.3082	
5.6	0.3077	0.3095
5.7	0.3097	
6.0	0.3101	
6.1	0.3107	
6.2	0.3113	0.3111
6.4	0.3153	0.3151
6.5	0.3138	
6.6	0.3138	
6.7	0.3126	
6.9	0.3151	
7.0	0.3130	
7.1	0.3156	
7.2	0.3141	0.3175
7.3	0.3148	
7.4	0.3141	0.3130
7.5		
7.6	0.3130	0.3129
7.7	0.3121	
7.8	0.3108	0.3107
7.9	0.3109	
8.0	0.3099	0.3060
8.2		0.3058
8.3	0.3090	
8.5	0.3081	0.3116
8.7	0.3088	
8.9	0.3118	
9.1	0.3154	
9.3	0.3109	0.3088
9.5	0.3105	
9.7	0.3099	
9.9	0.3102	
10.1	0.3135	0.3083
10.3	0.3111	
10.5	0.3162	
10.7	0.3221	
10.9	0.3219	0.3175
11.1	0.3205	
11.3	0.3181	

4.6	0.2648	0.2662
4.7	0.2652	
4.8	0.2652	0.2655
5.0	0.2672	0.2663
5.1	0.2704	
5.2		
5.4		0.2673
5.5	0.2694	
5.6	0.2673	0.2731
5.7	0.2680	
6.0	0.2733	
6.1	0.2730	
6.2	0.2717	0.2688
6.4	0.2701	0.2681
6.5	0.2681	
6.6	0.2678	
6.7	0.2654	
6.9	0.2661	
7.0	0.2672	
7.1	0.2691	
7.2		0.2654
7.3	0.2694	
7.4	0.2695	0.2646
7.5		
7.6	0.2708	0.2667
7.7	0.2705	
7.8	0.2697	0.2686
7.9	0.2700	
8.0	0.2704	0.2671
8.2		0.2673
8.3	0.2719	
8.5	0.2722	0.2679
8.7	0.2706	
8.9	0.2710	
9.1	0.2732	
9.3	0.2702	0.2758
9.5	0.2725	
9.7	0.2750	
9.9	0.2730	
10.1	0.2711	0.2687
10.3	0.2684	
10.5	0.2658	
10.7	0.2645	
10.9	0.2681	0.2725
11.1	0.2734	
11.3	0.2737	

4.6	0.2290	0.2300
4.7	0.2281	
4.8	0.2287	0.2295
5.0	0.2286	0.2316
5.1	0.2299	
5.2		
5.4		0.2289
5.5	0.2335	
5.6	0.2329	0.2293
5.7	0.2396	
6.0	0.2305	
6.1	0.2305	
6.2	0.2289	0.2298
6.4	0.2302	0.2321
6.5	0.2299	
6.6	0.2306	
6.7	0.2289	
6.9	0.2317	
7.0	0.2314	
7.1	0.2339	
7.2	0.2406	0.2317
7.3	0.2327	
7.4	0.2313	0.2295
7.5		
7.6	0.2324	0.2309
7.7	0.2324	
7.8	0.2317	0.2316
7.9	0.2295	
8.0	0.2281	0.2325
8.2		0.2328
8.3		
8.5	0.2335	0.2323
8.7	0.2337	
8.9	0.2311	
9.1	0.2357	
9.3		0.2325
9.5	0.2295	
9.7	0.2309	
9.9	0.2317	
10.1	0.2307	0.2263
10.3	0.2287	
10.5	0.2285	
10.7	0.2295	
10.9	0.2327	0.2302
11.1	0.2327	
11.3	0.2332	

TABLE V
OGIVE-CYLINDER STATIC PRESSURE DISTRIBUTIONS
 $M_\infty = 0.6$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.6	0.7985	0.7999	0.7890	0.7957	0.7809	0.7848	0.8104	0.7967	0.8223	0.7856
0.8	0.8028		0.8109		0.8229		0.7925		0.7829	
1.4		0.7854		0.7823		0.7732		0.7816		0.7731
1.7	0.7837		0.7771		0.7718		0.7926		0.8021	
2.0	0.7768	0.7757	0.7719	0.7727	0.7656	0.7637	0.7835	0.7729	0.7929	0.7636
2.3	0.7750		0.7704		0.7671		0.7821		0.7901	
2.5	0.7683	0.7701	0.7672	0.7674	0.7646		0.7765	0.7679	0.7839	
2.7	0.7710		0.7674		0.7653		0.7772		0.7833	
2.9	0.7684	0.7683	0.7661	0.7646	0.7647	0.7567	0.7738	0.7659	0.7799	0.7572
3.1	0.7690		0.7672		0.7663		0.7738		0.7788	
3.3	0.7683	0.7677	0.7672	0.7646	0.7675	0.7559	0.7723	0.7657	0.7786	0.7564
3.7	0.7679	0.7661	0.7680	0.7636	0.7688	0.7552	0.7704	0.7644	0.7738	0.7555
3.9	0.7716		0.7721		0.7731		0.7738		0.7764	
4.0		0.7738		0.7697		0.7623		0.7707		0.7628
4.1	0.7740	0.7765	0.7764	0.7737	0.7776	0.7650	0.7779	0.7750	0.7791	0.7666
4.1										
4.2	0.7767		0.7771		0.7784		0.7782		0.7807	
4.3	0.7773	0.7789	0.7781	0.7753	0.7793	0.7662	0.7794	0.7761	0.7817	0.7675
4.4	0.7773		0.7778		0.7791		0.7791		0.7813	
4.5	0.7790	0.7797	0.7797	0.7763	0.7806	0.7679	0.7810	0.7773	0.7833	0.7689
4.6	0.7790		0.7796		0.7808		0.7806		0.7827	
4.7	0.7799	0.7794	0.7811	0.7763	0.7809	0.7679	0.7814	0.7776	0.7841	0.7689
4.8	0.7798		0.7807		0.7816		0.7816		0.7839	
4.9	0.7796	0.7805	0.7800	0.7777	0.7814	0.7691	0.7810	0.7785	0.7836	0.7698
5.0	0.7799		0.7804		0.7819		0.7812		0.7840	
5.1	0.7800	0.7805	0.7810	0.7774	0.7816	0.7684	0.7814	0.7784	0.7838	0.7697
5.3	0.7801	0.7800	0.7813	0.7769	0.7820	0.7685	0.7817	0.7723	0.7838	0.7698
5.4	0.7810		0.7816		0.7828		0.7826		0.7849	
5.5		0.7778		0.7744		0.7660		0.7776		0.7676
5.6	0.7809		0.7817		0.7827		0.7823		0.7837	
5.7	0.7811	0.7808	0.7817	0.7780	0.7828	0.7694	0.7827	0.7790	0.7849	0.7699
5.8	0.7822		0.7820		0.7830		0.7828		0.7851	
5.9	0.7813	0.7812	0.7822	0.7783	0.7830	0.7693	0.7831	0.7788	0.7852	0.7698
6.0	0.7816		0.7827		0.7834		0.7830		0.7854	
6.1	0.7829	0.7808	0.7838	0.7778	0.7842	0.7700	0.7844	0.7788	0.7865	0.7697
3	0.7808	0.7815	0.7815	0.7789	0.7824	0.7694	0.7824	0.7800	0.7854	0.7713

6.4	0.7814		0.7826		0.7830		0.7830		0.7854	
6.5	0.7813	0.7815	0.7824	0.7790	0.7823	0.7706	0.7827	0.7795	0.7851	0.7716
6.6	0.7821		0.7829		0.7819		0.7838		0.7856	
6.7	0.7816	0.7798	0.7823	0.7800	0.7825	0.7717	0.7834	0.7810	0.7855	0.7706
6.8	0.7817		0.7822		0.7833		0.7835		0.7860	
6.9	0.7817	0.7839	0.7821	0.7813	0.7829	0.7732	0.7831	0.7819	0.7854	0.7715
7.0	0.7823		0.7831		0.7837		0.7836		0.7860	
7.3	0.7814		0.7824		0.7834		0.7830		0.7858	
7.4	0.7826		0.7826		0.7834		0.7835		0.7856	
7.5	0.7819	0.7821	0.7826	0.7790	0.7832	0.7712	0.7835	0.7803	0.7853	0.7722
7.7	0.7826	0.7826	0.7829	0.7838	0.7839	0.7722	0.7842	0.7809	0.7865	0.7727
7.8	0.7823		0.7825		0.7837		0.7860		0.7863	
7.9	0.7826		0.7829		0.7840		0.7844		0.7867	
8.0	0.7823		0.7826		0.7832		0.7835		0.7860	
8.2	0.7823		0.7827		0.7830		0.7837		0.7862	
8.3	0.7812		0.7817		0.7819		0.7830		0.7851	
8.4	0.7817		0.7821		0.7824		0.7831		0.7854	
8.5	0.7890	0.7840	0.7822	0.7803	0.7821	0.7724	0.7834	0.7824	0.7853	0.7740
8.6	0.7826		0.7829		0.7833		0.7839		0.7865	
8.7	0.7821	0.7811	0.7824	0.7799	0.7827	0.7732	0.7836	0.7812	0.7862	0.7736
8.8	0.7824		0.7829		0.7828		0.7842		0.7865	
8.9	0.7824	0.7821	0.7831	0.7792	0.7833	0.7722	0.7844	0.7803	0.7867	0.7729
9.0	0.7828		0.7830		0.7829		0.7842		0.7852	
9.1	0.7826	0.7826	0.7833	0.7800	0.7830	0.7726	0.7846	0.7810	0.7865	0.7733
9.2	0.7829		0.7831		0.7834		0.7846		0.7869	
9.3	0.7832	0.7824	0.7833	0.7793	0.7834	0.7718	0.7849	0.7806	0.7870	0.7730
9.5	0.7828	0.7834	0.7828	0.7811	0.7827	0.7740	0.7844	0.7816	0.7869	0.7747
9.6	0.7828		0.7834		0.7828		0.7846		0.7869	
9.8	0.7832	0.7812	0.7835	0.7810	0.7830	0.7734	0.7848	0.7821	0.7872	0.7747
10.0	0.7830		0.7851		0.7878		0.7841		0.7831	
10.0	0.7827		0.7829		0.7823		0.7837		0.7863	
10.2	0.7812		0.7811		0.7810		0.7830		0.7851	
10.4	0.7831		0.7836		0.7826		0.7847		0.7872	
10.6	0.7836	0.7832	0.7837	0.7807	0.7834	0.7737	0.7853	0.7817	0.7878	0.7744
10.8	0.7828		0.7830		0.7822		0.7844		0.7874	
11.0	0.7844		0.7850		0.7849		0.7864		0.7890	
11.2	0.7848		0.7842		0.7851		0.7873		0.7895	
11.4	0.7848	0.7842	0.7851	0.7822	0.7850	0.7751	0.7866	0.7832	0.7892	0.7772
11.6	0.7847		0.7850		0.7847		0.7867		0.7892	
11.8	0.7847		0.7850		0.7842		0.7862		0.7885	
12.0	0.7848		0.7851		0.7845		0.7862		0.7888	
12.2	0.7851	0.7859	0.7856	0.7833	0.7855	0.7771	0.7871	0.7838	0.7895	0.7771
12.4	0.7851		0.7856		0.7853		0.7869		0.7892	
12.6	0.7853		0.7858		0.7857		0.7867		0.7888	

Table V (Continued)

 $M_\infty = 0.8$

x/d	P/P_t									
	$\alpha = 0$	$\psi = 0$	$\alpha = 4$	$\psi = 4$	$\alpha = 8$	$\psi = 8$	$\alpha = -4$	$\psi = -4$	$\alpha = -8$	$\psi = -8$
0.8	0.6836	0.6882	0.6690	0.6792	0.6583	0.6715	0.7006	0.6804	0.7200	0.6718
0.8	0.6901		0.7025		0.7209		0.6740		0.6620	
1.4		0.6611		0.6568		0.6446		0.6576		0.6443
1.7	0.6579		0.6477		0.6405		0.6710		0.6864	
2.0	0.6480	0.6452	0.6438	0.6406	0.6394	0.6285	0.6643	0.6411	0.6814	0.6284
2.3	0.6433		0.6355		0.6312		0.6537		0.6668	
2.5	0.6363		0.6302		0.6262		0.6458		0.6569	
2.7	0.6368		0.6309		0.6284		0.6450		0.6567	
2.9	0.6324	0.6316	0.6283	0.6270	0.6272	0.6152	0.6396	0.6279	0.6506	0.6157
3.1	0.6329		0.6297		0.6294		0.6392		0.6487	
3.3	0.6331	0.6305	0.6291	0.6259	0.6299	0.6144	0.6363	0.6268	0.6474	0.6147
3.7	0.6309	0.6283	0.6304	0.6240	0.6338	0.6124	0.6338	0.6241	0.6399	0.6123
3.9	0.6381		0.6386		0.6416		0.6401		0.6453	
4.0		0.6412		0.6364		0.6242		0.6365		0.6244
4.1	0.6456	0.6466	0.6457	0.6420	0.6489	0.6309	0.6481	0.6432	0.6516	0.6314
4.1			0.6646		0.6653		0.6645		0.6638	
4.2	0.6469		0.6476		0.6504		0.6485		0.6532	
4.3	0.6488	0.6496	0.6494	0.6443	0.6517	0.6351	0.6502	0.6458	0.6549	0.6335
4.4	0.6485		0.6492		0.6517		0.6502		0.6545	
4.5	0.6512	0.6511	0.6517	0.6465	0.6545	0.6348	0.6528	0.6480	0.6575	0.6361
4.6	0.6509		0.6516		0.6543		0.6524		0.6568	
4.7	0.6526	0.6503	0.6533	0.6454	0.6556	0.6340	0.6539	0.6466	0.6598	0.6345
4.8	0.6525		0.6532		0.6560		0.6544		0.6590	
4.9	0.6521	0.6533	0.6529	0.6490	0.6551	0.6377	0.6537	0.6500	0.6579	0.6382
5.0	0.6528		0.6533		0.6560		0.6546		0.6591	
5.1	0.6530	0.6532	0.6535	0.6489	0.6562	0.6375	0.6547	0.6499	0.6590	0.6380
5.3	0.6533	0.6525	0.6540	0.6391	0.6565	0.6374	0.6548	0.6497	0.6593	0.6379
5.4	0.6544		0.6547		0.6576		0.6559		0.6604	
5.5		0.6511		0.6460		0.6351		0.6472		0.6364
5.6	0.6547		0.6540		0.6580		0.6560		0.6590	
5.7	0.6545	0.6541	0.6552	0.6496	0.6576		0.6561	0.6505	0.6606	
5.8	0.6547		0.6547		0.6579		0.6570		0.6607	
5.9	0.6553	0.6547	0.6554	0.6498	0.6583	0.6394	0.6566	0.6505	0.6607	0.6388
6.0	0.6553		0.6558		0.6581		0.6570		0.6615	
6.1	0.6563	0.6536	0.6574	0.6486	0.6595	0.6394	0.6582	0.6506	0.6627	0.6399
6.3	0.6551	0.6551	0.6558	0.6507	0.6578	0.6401	0.6564	0.6512	0.6613	0.6401

6.4	0.6548		0.6553		0.6580		0.6573		0.6615	
6.5	0.6548	0.6548	0.6559	0.6508	0.6582	0.6402	0.6561	0.6510	0.6620	0.6404
6.6	0.6563		0.6572		0.6583		0.6587			
6.7	0.6559	0.6564	0.6568	0.6520	0.6586	0.6416	0.6574	0.6530	0.6624	0.6424
6.8	0.6562		0.6562		0.6592		0.6573		0.6624	
6.9	0.6554	0.6559	0.6561	0.6515	0.6593	0.6431	0.6569	0.6539	0.6613	0.6422
7.0	0.6566		0.6573		0.6596		0.6577		0.6626	
7.3	0.6562		0.6562		0.6583		0.6574		0.6622	
7.4	0.6562		0.6573		0.6590		0.6577		0.6629	
7.5	0.6559	0.6559	0.6562	0.6516	0.6587	0.6408	0.6575	0.6526	0.6618	0.6421
7.7	0.6573	0.6567	0.6576	0.6525	0.6601	0.6422	0.6591	0.6532	0.6636	0.6427
7.8	0.6567		0.6571		0.6596		0.6588		0.6634	
7.9	0.6569		0.6572		0.6597		0.6589		0.6633	
8.0	0.6560		0.6565		0.6583		0.6577		0.6620	
8.2	0.6566		0.6571		0.6587		0.6581		0.6627	
8.3	0.6557		0.6565		0.6572		0.6568		0.6615	
8.4	0.6561		0.6567		0.6579		0.6576		0.6620	
8.5	0.6559	0.6581	0.6566	0.6546	0.6574	0.6429	0.6575	0.6545	0.6620	0.6439
8.6	0.6567		0.6572		0.6587		0.6586		0.6631	
8.7	0.6568	0.6555	0.6569	0.6533	0.6582	0.6434	0.6583	0.6538	0.6629	0.6439
8.8	0.6571		0.6578		0.6587		0.6588		0.6633	
8.9	0.6576	0.6564	0.6578	0.6519	0.6586	0.6429	0.6588	0.6561	0.6634	0.6431
9.0	0.6574		0.6575		0.6586		0.6589		0.6636	
9.1	0.6559	0.6575	0.6578	0.6534	0.6569	0.6435	0.6591	0.6544	0.6638	0.6440
9.2	0.6575		0.6577		0.6587		0.6593		0.6640	
9.3	0.6575	0.6565	0.6582	0.6530	0.6589	0.6431	0.6596	0.6532	0.6644	0.6433
9.5	0.6587	0.6580	0.6582	0.6545	0.6596	0.6444	0.6591	0.6552	0.6641	0.6452
9.6	0.6580		0.6585		0.6587		0.6597		0.6645	
9.8	0.6582	0.6577	0.6585	0.6542	0.6587	0.6446	0.6599	0.6552	0.6645	0.6456
10.0	0.6587		0.6605		0.6624		0.6582		0.6597	
10.0	0.6576		0.6580		0.6582		0.6597		0.6641	
10.2	0.6562		0.6563		0.6565		0.6578		0.6625	
10.4	0.6586		0.6590		0.6588		0.6605		0.6632	
10.6	0.6586	0.6581	0.6594	0.6544	0.6593	0.6458	0.6608	0.6553	0.6654	0.6460
10.8	0.6583		0.6594		0.6588		0.6607		0.6658	
11.0	0.6604		0.6610		0.6619		0.6625		0.6676	
11.2	0.6598		0.6603		0.6606		0.6632		0.6686	
11.4	0.6608	0.6602	0.6614	0.6567	0.6623	0.6480	0.6632	0.6566	0.6682	0.6488
11.6	0.6608		0.6611		0.6613		0.6627		0.6674	
11.8	0.6612		0.6612		0.6615		0.6634		0.6674	
12.0	0.6614		0.6619		0.6624		0.6634		0.6680	
12.2	0.6624	0.6621	0.6631	0.6589	0.6642	0.6506	0.6648	0.6591	0.6695	0.6508
12.4	0.6626		0.6635		0.6642		0.6647		0.6690	
12.6	0.6628		0.6638		0.6647		0.6645		0.6686	

Table V (Continued)
 $M_\infty = 0.9$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.6266	0.6276	0.6105	0.6225	0.5969	0.6121	0.6476	0.6249	0.6700	0.6152
0.8	0.6281		0.6488		0.6701		0.6176		0.6042	
1.4		0.5979		0.5930		0.5772		0.5952		0.5799
1.7	0.5943		0.5820		0.5715		0.6108		0.6286	
2.0		0.5773		0.5723		0.5569		0.5740		0.5590
2.3	0.5743		0.5649		0.5575		0.5878		0.6031	
2.5	0.5660		0.5587		0.5509	0.5445	0.5765		0.5927	0.5456
2.7	0.5646		0.5578		0.5529		0.5756		0.5889	
2.9	0.5583	0.5576	0.5530	0.5524	0.5504	0.5380	0.5688	0.5546	0.5811	0.5404
3.1	0.5592		0.5552		0.5531		0.5687		0.5790	
3.3	0.5567	0.5563	0.5538	0.5514	0.5559	0.5359	0.5660	0.5530	0.5760	0.5388
3.7	0.5545	0.5517	0.5560	0.5474	0.5587	0.5337	0.5592	0.5488	0.5657	0.5350
3.9	0.5666		0.5683		0.5708		0.5697		0.5745	
4.0		0.5711		0.5662		0.5519		0.5679		0.5537
4.1	0.5776	0.5791	0.5786	0.5748	0.5808	0.5597	0.5792	0.5767	0.5856	0.5628
4.1										
4.2	0.5793		0.5803		0.5828		0.5822		0.5870	
4.3	0.5815	0.5821	0.5825	0.5774	0.5854	0.5621	0.5844	0.5798	0.5896	0.5654
4.4	0.5819		0.5830		0.5852		0.5847		0.5894	
4.5	0.5846	0.5847	0.5858	0.5799	0.5880	0.5649	0.5875	0.5817	0.5926	0.5683
4.6	0.5846		0.5859		0.5877		0.5873		0.5920	
4.7	0.5864	0.5836	0.5874	0.5788	0.5907	0.5638	0.5895	0.5806	0.5952	0.5664
4.8	0.5866		0.5876		0.5899		0.5894		0.5946	
4.9	0.5855	0.5874	0.5873	0.5832	0.5891	0.5686	0.5888	0.5845	0.5938	0.5712
5.0	0.5870		0.5880		0.5900		0.5895		0.5946	
5.1	0.5870	0.5873	0.5886	0.5825	0.5902	0.5676	0.5899	0.5847	0.5948	0.5715
5.3	0.5873	0.5869	0.5887	0.5821	0.5903	0.5675	0.5902	0.5842	0.5951	0.5711
5.4	0.5886		0.5898		0.5914		0.5914		0.5965	
5.5		0.5852		0.5804		0.5663		0.5823		0.5697
5.6	0.5887		0.5889		0.5915		0.5900		0.5955	
5.7	0.5889	0.5880	0.5899	0.5835	0.5916	0.5692	0.5917	0.5845	0.5967	0.5718
5.8	0.5904		0.5901		0.5919		0.5922		0.5972	
5.9	0.5895	0.5891	0.5905	0.5845	0.5926	0.5708	0.5921	0.5853	0.5972	0.5726
6.0	0.5895		0.5909		0.5921		0.5926		0.5976	
6.1	0.5905	0.5888	0.5921	0.5843	0.5933	0.5709	0.5939	0.5859	0.5987	0.5729
6.3	0.5890	0.5894	0.5902	0.5849	0.5916	0.5710	0.5925	0.5865	0.5971	0.5736

6.4	0.5890		0.5907		0.5919		0.5920		0.5983	
6.5	0.5896	0.5889	0.5908	0.5852	0.5957	0.5714	0.5926	0.5865	0.5980	0.5737
6.6										
6.7	0.5905	0.5905	0.6000	0.5862		0.5730	0.5940	0.5888	0.5983	0.5767
6.8	0.5904		0.5911		0.5927		0.5934		0.5988	
6.9	0.5896	0.5902	0.5908	0.5873	0.5921	0.5726	0.5927	0.5867	0.5978	0.5738
7.0	0.5910		0.5920		0.5934		0.5949		0.5996	
7.3	0.5901		0.5909		0.5925		0.5935		0.5990	
7.4	0.5911		0.5916		0.5929		0.5943		0.5988	
7.5	0.5904	0.5906	0.5915	0.5858	0.5923	0.5725	0.5935	0.5882	0.5985	0.5759
7.7	0.5918	0.5911	0.5927	0.5869	0.5939	0.5739	0.5947	0.5885	0.6004	0.5765
7.8	0.5915		0.5923		0.5935		0.5947		0.6003	
7.9	0.5916		0.5925		0.5939		0.5948		0.6003	
8.0	0.5906		0.5916		0.5921		0.5936		0.5987	
8.2	0.5911		0.5922		0.5925		0.5940		0.5996	
8.3	0.5899		0.5909		0.5909		0.5929		0.5981	
8.4	0.5907		0.5915		0.5917		0.5937		0.5988	
8.5	0.5906	0.5927	0.5913	0.5879	0.5914	0.5754	0.5934	0.5900	0.5988	0.5780
8.6	0.5915		0.5925		0.5926		0.5947		0.6004	
8.7	0.5913	0.5904	0.5922	0.5880	0.5916	0.5759	0.5945	0.5899	0.5997	0.5782
8.8	0.5916		0.5936		0.6005		0.5952		0.5997	
8.9	0.5922	0.5911	0.5930	0.5868	0.5923	0.5751	0.5954	0.5887	0.6005	0.5777
9.0	0.5921		0.5926		0.5924		0.5954		0.6006	
9.1	0.5908	0.5921	0.5931	0.5878	0.5904	0.5752	0.5954	0.5897	0.6006	0.5783
9.2	0.5924		0.5929		0.5924		0.5956		0.6010	
9.3	0.5922	0.5914	0.5933	0.5875	0.5922	0.5750	0.5960	0.5890	0.6008	0.5773
9.5	0.5926	0.5932	0.5936	0.5892	0.5921	0.5766	0.5959	0.5905	0.6012	0.5795
9.6	0.5929		0.5937		0.5925		0.5963		0.6013	
9.8	0.5929	0.5926	0.5938	0.5884	0.5925	0.5776	0.5965	0.5910	0.6017	0.5805
10.0	0.5965						0.5956			
10.0	0.5926		0.5932		0.5922		0.5954		0.6017	
10.2	0.5913		0.5930		0.5901		0.5945		0.5997	
10.4	0.5937		0.5944		0.5922		0.5970		0.6023	
10.6	0.5938	0.5936	0.5947	0.5899	0.5933	0.5783	0.5974	0.5912	0.6027	0.5806
10.8	0.5939		0.5948		0.5930		0.5973		0.6033	
11.0	0.5961		0.5971		0.5962		0.5997		0.6053	
11.2	0.5954		0.5975		0.5973		0.6009		0.6059	
11.4	0.5968	0.5959	0.5979	0.5925	0.5971	0.5810	0.6006	0.5943	0.6061	0.5836
11.6	0.5968		0.5978		0.5971		0.6002		0.6057	
11.8	0.5968		0.5979		0.5968		0.6004		0.6056	
12.0	0.5979		0.5991		0.5978		0.6013		0.6066	
12.2	0.5995	0.5991	0.6009	0.5952	0.6002	0.5847	0.6031	0.5968	0.6085	0.5864
12.4	0.5999		0.6013		0.6003		0.6031		0.6085	
12.6	0.6004		0.6022		0.6014		0.6031		0.6079	

Table V (Continued)
 $M_\infty = 0.95$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.6029	0.6077	0.5848	0.5971	0.5716	0.5885	0.6233	0.5990	0.6475	0.5912
0.8	0.6099		0.6237		0.6478		0.5906		0.5759	
1.4		0.5689		0.5641		0.5488		0.5653		0.5496
1.7	0.5659		0.5525		0.5414		0.5816		0.6013	
2.0		0.5446		0.5385		0.5241		0.5403		0.5250
2.3	0.5414		0.5302		0.5227		0.5547		0.5718	
2.5	0.5308		0.5203		0.5147		0.5425		0.5587	
2.7	0.5289		0.5203		0.5149		0.5398		0.5553	
2.9	0.5183	0.5172	0.5100	0.5113	0.5064	0.4978	0.5283	0.5134	0.5430	0.4991
3.1	0.5209		0.5128		0.5111		0.5266		0.5392	
3.3	0.5167	0.5156	0.5117	0.5108	0.5129	0.4965	0.5244	0.5113	0.5328	0.4946
3.7	0.5026	0.5000	0.5055	0.4934	0.5176	0.4835	0.5066	0.4968	0.5168	0.4769
3.9	0.5337		0.5345		0.5383		0.5328		0.5334	
4.0		0.5382		0.5338		0.5187		0.5345		0.5225
4.1	0.5465	0.5482	0.5471	0.5429	0.5502	0.5281	0.5481	0.5450	0.5530	0.5314
4.1										
4.2	0.5484		0.5493		0.5524		0.5496		0.5546	
4.3	0.5511	0.5520	0.5512	0.5457	0.5545	0.5305	0.5518	0.5465	0.5572	0.5332
4.4	0.5516		0.5517		0.5550		0.5526		0.5579	
4.5	0.5539	0.5540	0.5543	0.5479	0.5578	0.5328	0.5554	0.5495	0.5611	0.5358
4.6	0.5536		0.5544		0.5574		0.5552		0.5603	
4.7	0.5558	0.5521	0.5557	0.5465	0.5591	0.5319	0.5570	0.5476	0.5624	0.5333
4.8	0.5556		0.5559		0.5591		0.5574		0.5629	
4.9	0.5549	0.5567	0.5559	0.5509	0.5583	0.5370	0.5558	0.5523	0.5621	0.5387
5.0	0.5560		0.5565		0.5594		0.5580		0.5638	
5.1	0.5561	0.5561	0.5567	0.5511	0.5595	0.5365	0.5577	0.5521	0.5636	0.5385
5.3	0.5563	0.5557	0.5569	0.5421	0.5597	0.5364	0.5581	0.5514	0.5637	0.5381
5.4	0.5576		0.5577		0.5608		0.5594		0.5648	
5.5		0.5537		0.5479		0.5344		0.5500		0.5369
5.6	0.5578		0.5578		0.5613		0.5597		0.5638	
5.7	0.5579	0.5568	0.5581	0.5515	0.5611	0.5376	0.5597	0.5526	0.5654	0.5387
5.8	0.5580		0.5582		0.5614		0.5597		0.5655	
5.9	0.5580	0.5579	0.5580	0.5523	0.5614	0.5391	0.5597	0.5528	0.5652	0.5397
6.0	0.5586		0.5590		0.5619		0.5605		0.5665	
6.1	0.5599	0.5579	0.5605	0.5523	0.5631	0.5393	0.5621	0.5534	0.5666	0.5404
6.3	0.5580	0.5577	0.5588	0.5532	0.5617	0.5396	0.5598	0.5542	0.5666	0.5413

6.4	0.5582		0.5584		0.5616		0.5600		0.5664	
6.5	0.5590	0.5577	0.5578	0.5530	0.5606	0.5397	0.5600	0.5540	0.5656	0.5409
6.6	0.5594		0.5584		0.5581		0.5606		0.5677	
6.7	0.5599	0.5593	0.5585	0.5545	0.5604	0.5416	0.5613	0.5555	0.5675	0.5441
6.8	0.5593		0.5593		0.5625		0.5610		0.5677	
6.9	0.5587	0.5590	0.5591	0.5559	0.5619	0.5431	0.5604	0.5564	0.5666	0.5434
7.0	0.5602		0.5596		0.5629		0.5620		0.5684	
7.3	0.5590		0.5599		0.5627		0.5611		0.5681	
7.4	0.5597		0.5597		0.5630		0.5616		0.5675	
7.5	0.5595	0.5594	0.5597	0.5538	0.5621	0.5409	0.5614	0.5552	0.5673	0.5431
7.7	0.5611	0.5602	0.5611	0.5549	0.5637	0.5425	0.5630	0.5560	0.5695	0.5437
7.8	0.5607		0.5606		0.5634		0.5628		0.5691	
7.9	0.5609		0.5607		0.5635		0.5628		0.5693	
8.0	0.5596		0.5599		0.5623		0.5614		0.5675	
8.2	0.5602		0.5602		0.5619		0.5619		0.5682	
8.3	0.5594		0.5590		0.5601		0.5608		0.5668	
8.4	0.5599		0.5602		0.5612		0.5619		0.5675	
8.5	0.5598	0.5623	0.5595	0.5565	0.5605	0.5427	0.5610	0.5575	0.5672	0.5460
8.6	0.5605		0.5608		0.5619		0.5628		0.5689	
8.7	0.5606	0.5600	0.5605	0.5566	0.5613	0.5451	0.5625	0.5571	0.5688	0.5454
8.8	0.5612		0.5609		0.5605		0.5630		0.5693	
8.9	0.5616	0.5604	0.5613	0.5551	0.5623	0.5438	0.5633	0.5567	0.5700	0.5449
9.0	0.5614		0.5611		0.5621		0.5633		0.5697	
9.1	0.5602	0.5609	0.5613	0.5561	0.5618	0.5441	0.5634	0.5574	0.5682	0.5458
9.2	0.5620		0.5615		0.5622		0.5637		0.5702	
9.3	0.5615	0.5605	0.5614	0.5557	0.5622	0.5442	0.5634	0.5568	0.5702	0.5453
9.5	0.5643	0.5620	0.5617	0.5572	0.5623	0.5453	0.5639	0.5585	0.5707	0.5472
9.6	0.5625		0.5622		0.5617		0.5644		0.5707	
9.8	0.5625	0.5614	0.5624	0.5572	0.5623	0.5462	0.5643	0.5591	0.5709	0.5471
10.0	0.5634		0.5636		0.5648		0.5626		0.5622	
10.0	0.5625		0.5619		0.5620		0.5644		0.5704	
10.2	0.5619		0.5609		0.5596		0.5628		0.5691	
10.4	0.5635		0.5634		0.5628		0.5655		0.5720	
10.6	0.5636	0.5629	0.5637	0.5584	0.5634	0.5475	0.5662	0.5592	0.5721	0.5489
10.8	0.5641		0.5638		0.5637		0.5667		0.5729	
11.0	0.5659				0.5666		0.5682		0.5751	
11.2	0.5668		0.5670		0.5680		0.5694		0.5764	
11.4	0.5673	0.5660	0.5675	0.5618	0.5680	0.5507	0.5698	0.5624	0.5762	0.5527
11.6	0.5675		0.5675		0.5678		0.5694		0.5758	
11.8	0.5680		0.5677		0.5680		0.5694		0.5761	
12.0	0.5694		0.5702		0.5697		0.5717		0.5777	
12.2	0.5712	0.5700	0.5720	0.5659	0.5725	0.5549	0.5734	0.5672	0.5797	0.5568
12.4	0.5719		0.5731		0.5733		0.5739		0.5804	
12.6	0.5723		0.5743		0.5744		0.5741		0.5798	

Table V (Continued)
 $M_\infty = 0.975$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.5929	0.5945	0.5752	0.5880	0.5611	0.5792	0.6140	0.5884	0.6386	0.5810
0.8	0.5938		0.6138		0.6398		0.5773		0.5633	
1.4		0.5588		0.5524		0.5359		0.5528		0.5380
1.7	0.5543		0.5414		0.5296		0.5709		0.5911	
2.0		0.5311		0.5251		0.5094		0.5254		0.5111
2.3	0.5287		0.5180		0.5111		0.5419		0.5593	
2.5	0.5131		0.5017		0.4981		0.5274		0.5455	
2.7	0.5114		0.5028		0.4952		0.5254		0.5413	
2.9	0.5038	0.5031	0.4957	0.4963	0.4899	0.4788	0.5142	0.4974	0.5283	0.4816
3.1	0.4971		0.4904		0.4860		0.5056		0.5199	
3.3	0.4938	0.4939	0.4883	0.4877	0.4862	0.4697	0.5022	0.4883	0.5151	0.4712
3.7	0.4786	0.4760	0.4751	0.4706	0.4756	0.4531	0.4850	0.4707	0.4950	0.4544
3.9	0.4759		0.4767		0.4830		0.4812		0.4895	
4.0		0.4797		0.4746		0.4554		0.4752		0.4567
4.1	0.4925	0.4948	0.5071	0.4907	0.5156	0.4691	0.4939	0.4958	0.5005	0.4695
4.1										
4.2	0.5112		0.5297		0.5340		0.4988		0.5030	
4.3	0.5349	0.5341	0.5397	0.5360	0.5406	0.4882	0.5189	0.5373	0.5100	0.4873
4.4	0.5452		0.5458		0.5467		0.5420		0.5203	
4.5	0.5491	0.5495	0.5488	0.5436	0.5507	0.5285	0.5505	0.5452	0.5485	0.5281
4.6	0.5485		0.5480		0.5506		0.5507		0.5555	
4.7	0.5494	0.5471	0.5484	0.5406	0.5513	0.5277	0.5519	0.5406	0.5585	0.5302
4.8	0.5477		0.5479		0.5509		0.5507		0.5579	
4.9	0.5460	0.5490	0.5457	0.5423	0.5493	0.5297	0.5484	0.5425	0.5555	0.5328
5.0	0.5462		0.5465		0.5495		0.5487		0.5555	
5.1	0.5450	0.5468	0.5454	0.5401	0.5492	0.5269	0.5477	0.5401	0.5549	0.5305
5.3	0.5440	0.5423	0.5448	0.5383	0.5481	0.5252	0.5464	0.5393	0.5530	0.5282
5.4	0.5448		0.5452		0.5488		0.5473		0.5544	
5.5		0.5417		0.5358		0.5216		0.5363		0.5257
5.6	0.5426		0.5448		0.5469		0.5467		0.5531	
5.7	0.5441	0.5437	0.5447	0.5378	0.5477	0.5242	0.5463	0.5389	0.5526	
5.8	0.5451		0.5447		0.5475		0.5460		0.5524	
5.9	0.5437	0.5440	0.5443	0.5383	0.5479	0.5250	0.5464	0.5383	0.5528	0.5254
6.0	0.5439		0.5447		0.5483		0.5466		0.5535	
6.1	0.5455	0.5440	0.5463	0.5384	0.5495	0.5246	0.5478	0.5392	0.5526	0.5263
6.3	0.5432	0.5449	0.5438	0.5403	0.5475	0.5244	0.5462	0.5389	0.5523	0.5267

6.4	0.5432		0.5440		0.5470		0.5462		0.5519	
6.5	0.5427	0.5439	0.5435	0.5388	0.5483	0.5245	0.5461	0.5390	0.5528	0.5259
6.6	0.5430		0.5599		0.5608		0.5464		0.5537	
6.7	0.5431	0.5451	0.5499	0.5400	0.5581	0.5264	0.5472	0.5413	0.5533	0.5292
6.8	0.5443		0.5447		0.5477		0.5464		0.5530	
6.9	0.5437	0.5444	0.5443	0.5409	0.5470	0.5273	0.5458	0.5397	0.5519	0.5264
7.0	0.5443		0.5453		0.5485		0.5473		0.5535	
7.3	0.5446		0.5447		0.5476		0.5466		0.5528	
7.4	0.5445		0.5449		0.5472		0.5463		0.5523	
7.5	0.5443	0.5444	0.5449	0.5391	0.5467	0.5249	0.5461	0.5401	0.5521	0.5276
7.7	0.5459	0.5453	0.5463	0.5402	0.5483	0.5262	0.5480	0.5407	0.5539	0.5279
7.8	0.5453		0.5458		0.5477		0.5475		0.5535	
7.9	0.5457		0.5459		0.5481		0.5478		0.5539	
8.0	0.5444		0.5449		0.5459		0.5462		0.5521	
8.2	0.5452		0.5454		0.5461		0.5466		0.5526	
8.3	0.5439		0.5440		0.5445		0.5453		0.5515	
8.4	0.5447		0.5448		0.5452		0.5464		0.5521	
8.5	0.5439	0.5471	0.5445	0.5412	0.5451	0.5277	0.5459	0.5428	0.5519	0.5294
8.6	0.5455		0.5458		0.5461		0.5478		0.5533	
8.7	0.5450	0.5448	0.5455	0.5413	0.5453	0.5275	0.5472	0.5423	0.5531	0.5294
8.8	0.5459		0.5447		0.5491		0.5477		0.5537	
8.9	0.5462	0.5450	0.5465	0.5401	0.5459	0.5272	0.5478	0.5411	0.5542	0.5292
9.0	0.5460		0.5464		0.5461		0.5482		0.5542	
9.1	0.5446	0.5462	0.5467	0.5411	0.5440	0.5278	0.5480	0.5421	0.5526	0.5301
9.2	0.5463		0.5467		0.5464		0.5486		0.5544	
9.3	0.5463	0.5453	0.5471	0.5407	0.5464	0.5276	0.5483	0.5415	0.5544	0.5288
9.5	0.5466	0.5468	0.5470	0.5425	0.5458	0.5295	0.5486	0.5435	0.5546	0.5320
9.6	0.5467		0.5474		0.5463		0.5489		0.5549	
9.8	0.5472	0.5457	0.5478	0.5427	0.5465	0.5302	0.5493	0.5437	0.5553	0.5372
10.0	0.5461		0.5629		0.5674		0.5480		0.5478	
10.0	0.5470		0.5476		0.5467		0.5493		0.5554	
10.2	0.5460		0.5464		0.5443		0.5475		0.5537	
10.4	0.5483		0.5489		0.5473		0.5505		0.5566	
10.6	0.5488	0.5485	0.5494	0.5440	0.5481	0.5322	0.5507	0.5447	0.5568	0.5334
10.8	0.5490		0.5497		0.5482		0.5518		0.5580	
11.0			0.5522		0.5518		0.5539		0.5600	
11.2	0.5526		0.5533		0.5532		0.5555		0.5618	
11.4	0.5530	0.5525	0.5540	0.5482	0.5539	0.5368	0.5560	0.5489	0.5620	0.5380
11.6	0.5532		0.5544		0.5540		0.5557		0.5618	
11.8	0.5543		0.5554		0.5545		0.5568		0.5621	
12.0	0.5563		0.5573		0.5566		0.5581		0.5640	
12.2	0.5585	0.5577	0.5595	0.5535	0.5602	0.5431	0.5607	0.5537	0.5665	0.5437
12.4	0.5600		0.5611		0.5618		0.5618		0.5681	
12.6	0.5608		0.5627		0.5632		0.5614		0.5677	

Table V (Continued)
 $M_\infty = 1.0$

x/d	P/P_t									
	$\alpha = 0$	$\psi = 0$	$\alpha = 4$	$\psi = 4$	$\alpha = 8$	$\psi = 8$	$\alpha = -4$	$\psi = -4$	$\alpha = -8$	$\psi = -8$
0.8	0.5860	0.5866	0.5680	0.5801	0.5547	0.5723	0.6073	0.5826	0.6325	0.5737
0.8	0.5862		0.6085		0.6342		0.5685		0.5555	
1.4		0.5499		0.5436		0.5288		0.5458		0.5285
1.7	0.5471		0.5344		0.5233		0.5639		0.5837	
2.0		0.5201		0.5146		0.5011		0.5164		0.5020
2.3	0.5216		0.5101		0.5009		0.5337		0.5510	
2.5	0.5064		0.4970		0.4878		0.5190		0.5331	
2.7	0.5024		0.4933		0.4873		0.5160		0.5313	
2.9	0.4932	0.4927	0.4854	0.4866	0.4807	0.4706	0.5052	0.4890	0.5201	0.4727
3.1	0.4854		0.4793		0.4762		0.4962		0.5106	
3.3	0.4842	0.4819	0.4782	0.4759	0.4762	0.4604	0.4925	0.4772	0.5067	0.4608
3.7	0.4670	0.4645	0.4636	0.4583	0.4637	0.4425	0.4738	0.4603	0.4847	0.4434
3.9	0.4634		0.4634		0.4662		0.4680		0.4770	
4.0		0.4666		0.4601		0.4424		0.4616		0.4446
4.1	0.4758	0.4776	0.4768	0.4711	0.4796	0.4539	0.4792	0.4729	0.4872	0.4551
4.1										
4.2	0.4798		0.4821		0.4869		0.4818		0.4886	
4.3	0.4854	0.4859	0.4876	0.4792	0.4938	0.4624	0.4861	0.4816	0.4920	0.4644
4.4	0.4879		0.4913		0.4958		0.4887		0.4931	
4.5	0.4938	0.4937	0.4964	0.4869	0.5010	0.4699	0.4940	0.4891	0.4976	0.4728
4.6	0.4959		0.4984		0.5028		0.4956		0.4988	
4.7	0.4997	0.4958	0.5020	0.4893	0.5067	0.4731	0.4993	0.4912	0.5037	0.4749
4.8	0.5015		0.5036		0.5078		0.5016		0.5044	
4.9	0.5020	0.5039	0.5037	0.4976	0.5078	0.4821	0.5025	0.4996	0.5049	0.4839
5.0	0.5046		0.5061		0.5100		0.5058		0.5086	
5.1	0.5060	0.5058	0.5075	0.5000	0.5112	0.4844	0.5070	0.5017	0.5103	0.4865
5.3	0.5082	0.5070	0.5092	0.5016	0.5129	0.4860	0.5097	0.5032	0.5136	0.4884
5.4	0.5101		0.5111		0.5151		0.5120		0.5164	
5.5		0.5072		0.5012		0.4869		0.5036		0.4895
5.6	0.5119		0.5125		0.5171		0.5141		0.5190	
5.7	0.5128		0.5134	0.5057	0.5177	0.4912	0.5153	0.5076	0.5196	
5.8	0.5136		0.5143		0.5187		0.5161		0.5205	
5.9	0.5143	0.5133	0.5155	0.5083	0.5205	0.4940	0.5170	0.5097	0.5219	0.4954
6.0	0.5154		0.5180		0.5215		0.5175		0.5227	
6.1	0.5175	0.5152	0.5187	0.5105	0.5247	0.4966	0.5202	0.5114	0.5251	0.4983
6.3	0.5188	0.5183	0.5259	0.5190	0.5284	0.5000	0.5195	0.5151	0.5245	0.5030

6.4	0.5224		0.5311		0.5332		0.5210		0.5256	
6.5	0.5294	0.5256	0.5304	0.5276	0.5392	0.5085	0.5297	0.5248	0.5283	0.5152
6.6	0.5336		0.5334		0.5355		0.5335		0.5339	
6.7	0.5367	0.5325	0.5362	0.5318	0.5405	0.5195	0.5378	0.5350	0.5411	0.5226
6.8	0.5377		0.5380		0.5421		0.5403		0.5450	
6.9	0.5378	0.5401	0.5378	0.5329	0.5416	0.5199	0.5405	0.5366	0.5455	0.5200
7.0	0.5399		0.5387		0.5436		0.5419		0.5478	
7.3	0.5386		0.5375		0.5421		0.5419		0.5473	
7.4	0.5388		0.5382		0.5419		0.5419		0.5473	
7.5	0.5379	0.5385	0.5373	0.5321	0.5412	0.5195	0.5410	0.5348	0.5464	0.5212
7.7	0.5395	0.5385	0.5384	0.5321	0.5428	0.5203	0.5426	0.5345	0.5484	0.5210
7.8	0.5386		0.5378		0.5416		0.5419		0.5477	
7.9	0.5381		0.5373		0.5410		0.5416		0.5474	
8.0	0.5365		0.5355		0.5385		0.5396		0.5452	
8.2	0.5363		0.5353		0.5382		0.5398		0.5456	
8.3	0.5344		0.5336		0.5362		0.5385		0.5434	
8.4	0.5352		0.5341		0.5364		0.5387		0.5438	
8.5	0.5340	0.5371	0.5337	0.5311	0.5352	0.5189	0.5369	0.5337	0.5434	0.5196
8.6	0.5347		0.5337		0.5362		0.5387		0.5442	
8.7	0.5340	0.5339	0.5331	0.5280	0.5348	0.5178	0.5376	0.5308	0.5436	0.5187
8.8	0.5342		0.5334		0.5357		0.5375		0.5433	
8.9	0.5338	0.5334	0.5325	0.5273	0.5348	0.5157	0.5376	0.5307	0.5436	0.5163
9.0	0.5333		0.5321		0.5339		0.5367		0.5428	
9.1	0.5326	0.5331	0.5316	0.5270	0.5330	0.5155	0.5364	0.5296	0.5409	0.5170
9.2	0.5326		0.5317		0.5331		0.5360		0.5421	
9.3	0.5319	0.5307	0.5311	0.5250	0.5327		0.5360	0.5287	0.5416	0.5149
9.5	0.5314	0.5317	0.5309	0.5259	0.5314	0.5145	0.5350	0.5285	0.5411	0.5167
9.6	0.5313		0.5312		0.5316		0.5348		0.5413	
9.8	0.5305	0.5306	0.5308	0.5259	0.5311	0.5139	0.5339	0.5271	0.5404	0.5153
10.0	0.5308		0.5309		0.5345		0.5309		0.5313	
10.0	0.5298		0.5306		0.5304		0.5330		0.5398	
10.2	0.5281		0.5293		0.5285		0.5310		0.5374	
10.4	0.5315		0.5323		0.5323		0.5344		0.5408	
10.6	0.5321	0.5316	0.5329	0.5274	0.5385	0.5162	0.5352	0.5289	0.5412	0.5176
10.8	0.5333		0.5335		0.5339		0.5364		0.5429	
11.0	0.5360		0.5368		0.5375		0.5389		0.5451	
11.2	0.5374		0.5384		0.5396		0.5412		0.5475	
11.4	0.5386	0.5377	0.5396	0.5332	0.5405	0.5235	0.5422	0.5353	0.5482	0.5244
11.6	0.5396		0.5406		0.5411		0.5427		0.5484	
11.8	0.5403		0.5414		0.5425		0.5439		0.5494	
12.0	0.5437		0.5448		0.5449		0.5468		0.5517	
12.2	0.5461	0.5450	0.5476	0.5412	0.5487	0.5310	0.5495	0.5422	0.5549	0.5325
12.4	0.5485		0.5499		0.5514		0.5514		0.5570	
12.6	0.5497		0.5519		0.5531		0.5521		0.5574	

Table V (Continued)
 $M_\infty = 1.025$

x/d	ρ/ρ_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.5826	0.5838	0.5625	0.5755	0.5501	0.5683	0.6025	0.5768	0.6283	0.5685
0.8	0.5821		0.6031		0.6291		0.5641		0.5548	
1.4		0.5474		0.5394		0.5235		0.5409		0.5246
1.7	0.5445		0.5305		0.5206		0.5599		0.5798	
2.0		0.5180		0.5109		0.4976		0.5118		0.4978
2.3	0.5192		0.5056		0.4974		0.5299		0.5477	
2.5	0.5022		0.4929		0.4850		0.5122		0.5304	
2.7	0.4997		0.4897		0.4840		0.5108		0.5286	
2.9	0.4904	0.4908	0.4816	0.4826	0.4771	0.4678	0.5015	0.4844	0.5164	0.4680
3.1	0.4829		0.4759		0.4733		0.4930		0.5071	
3.3	0.4793	0.4792	0.4744	0.4721	0.4711	0.4540	0.4900	0.4734	0.5028	0.4556
3.7	0.4642	0.4621	0.4613	0.4543	0.4603	0.4405	0.4713	0.4557	0.4820	0.4378
3.9	0.4598		0.4604		0.4618		0.4652		0.4740	
4.0		0.4635		0.4552		0.4412		0.4567		0.4375
4.1	0.4721	0.4742	0.4742	0.4651	0.4763	0.4515	0.4748	0.4677	0.4843	0.4472
4.1										
4.2	0.4749		0.4789		0.4810		0.4787		0.4857	
4.3	0.4800	0.4806	0.4840	0.4737	0.4799	0.4591	0.4831	0.4765	0.4889	0.4569
4.4	0.4824		0.4875		0.4891		0.4849		0.4899	
4.5	0.4872	0.4877	0.4922	0.4796	0.4936	0.4660	0.4903	0.4828	0.4942	0.4630
4.6	0.4889		0.4942		0.4949		0.4919		0.4953	
4.7	0.4939	0.4891	0.4973	0.4804	0.4961	0.4697	0.4948	0.4827	0.4991	0.4632
4.8	0.4940		0.4991		0.4985		0.4976		0.5003	
4.9	0.4933	0.4963	0.4984	0.4879	0.4979	0.4767	0.4976	0.4897	0.4999	0.4706
5.0	0.4952		0.5005		0.5001		0.5004		0.5037	
5.1	0.4953	0.4955	0.5007	0.4890	0.4997	0.4727	0.5015	0.4908	0.5040	0.4729
5.3	0.4968	0.4962	0.5021	0.4884	0.5007	0.4783	0.5024	0.4907	0.5063	0.4726
5.4	0.4982		0.5031		0.5020		0.5041		0.5081	
5.5		0.4953		0.4872		0.4776		0.4892		0.4721
5.6	0.4980		0.5021		0.5018		0.5045		0.5085	
5.7	0.4983		0.5019	0.4904	0.5019		0.5041	0.4913	0.5086	0.4749
5.8	0.4987		0.5020		0.5024		0.5037		0.5090	
5.9	0.4994	0.4987	0.5024	0.4916	0.5022	0.4808	0.5035	0.4918	0.5094	0.4758
6.0	0.4980		0.4991		0.5021		0.5022		0.5057	
6.1	0.5006	0.4988	0.5014	0.4915	0.5037	0.4804	0.5040	0.4928	0.5072	0.4766
6.3	0.4973	0.5000	0.4981	0.4924	0.5015	0.4795	0.5009	0.4961	0.5055	0.4781

6.4	0.4974		0.4984		0.5019		0.5017		0.5055	
6.5	0.4992	0.4990	0.5008	0.4914	0.5023	0.4797	0.5009	0.4927	0.5078	0.4777
6.6									0.5097	
6.7	0.5039	0.4991		0.4868		0.4795	0.5012	0.4908	0.5092	0.4800
6.8			0.4978		0.5019		0.5001		0.5069	
6.9	0.4963	0.5005	0.4969	0.4910	0.5010	0.4803	0.4990	0.4941	0.5061	0.4799
7.0	0.4978		0.4980		0.5026		0.5006		0.5079	
7.3	0.4962		0.4970		0.5011		0.4978		0.5063	
7.4	0.4966		0.4975		0.5009		0.4980		0.5052	
7.5	0.4966	0.4975	0.4969	0.4905	0.5002	0.4761	0.4980	0.4914	0.5050	0.4784
7.7	0.4998	0.4981	0.4981	0.4910	0.5014	0.4772	0.4996	0.4917	0.5064	0.4784
7.8	0.4999		0.4973		0.5008		0.4992		0.5059	
7.9	0.5014		0.4974		0.5008		0.4992		0.5063	
8.0	0.5013		0.4964		0.4984		0.4976		0.5046	
8.2	0.5039		0.4963		0.4986		0.4978		0.5050	
8.3	0.5031		0.4948		0.4974		0.4959		0.5032	
8.4	0.5053		0.4955		0.4987		0.4970		0.5041	
8.5	0.5048	0.4990	0.4950	0.4909	0.4980	0.4786	0.4964	0.4919	0.5036	0.4804
8.6	0.5086		0.4955		0.5017		0.4977		0.5053	
8.7	0.5087	0.4988	0.4948	0.4902	0.5020	0.4786	0.4967	0.4893	0.5042	0.4806
8.8	0.5047		0.5009		0.4976		0.4968		0.5048	
8.9	0.5111	0.4964	0.4954	0.4896	0.5049	0.4762	0.4975	0.4897	0.5055	0.4842
9.0	0.5114		0.4954		0.5051		0.4957		0.5052	
9.1	0.5115	0.4978	0.4965	0.4904	0.5048	0.4766	0.4966	0.4906	0.5048	0.4855
9.2	0.5125		0.4975		0.5058		0.4971		0.5053	
9.3	0.5136	0.4984	0.4995	0.4938	0.5060	0.4762	0.4969	0.4924	0.5059	0.4855
9.5	0.5174	0.5038	0.5047	0.5010	0.5082	0.4775	0.4971	0.4987	0.5072	0.4931
9.6	0.5199		0.5055		0.5078		0.4979		0.5090	
9.8	0.5306	0.5219	0.5111	0.5114	0.5143	0.4830	0.4990	0.5046	0.5118	0.5003
10.0	0.5124		0.5318		0.5337		0.5083		0.5107	
10.0	0.5338		0.5134		0.5182		0.4998		0.5139	
10.2	0.5339		0.5151		0.5244		0.5067		0.5242	
10.4	0.5361		0.5217		0.5316		0.5192		0.5293	
10.6	0.5353	0.5312	0.5291	0.5297	0.5348	0.4966	0.5203	0.5250	0.5296	0.5211
10.8	0.5346		0.5352		0.5368		0.5237		0.5427	
11.0	0.5341		0.5388		0.5386		0.5381		0.5484	
11.2	0.5338		0.5402		0.5392		0.5439		0.5499	
11.4	0.5323	0.5404	0.5404	0.5335	0.5386	0.5272	0.5450	0.5360	0.5501	0.5219
11.6	0.5300		0.5398		0.5371		0.5447		0.5490	
11.8	0.5280		0.5391		0.5372		0.5441		0.5486	
12.0	0.5399		0.5390		0.5461		0.5425		0.5449	
12.2	0.5396	0.5412	0.5408	0.5336	0.5482	0.5324	0.5440	0.5371	0.5471	0.5232
12.4	0.5407		0.5422		0.5509		0.5447		0.5479	
12.6	0.5415		0.5437		0.5516		0.5438		0.5472	

Table V (Continued)
 $M_{\infty} = 1.05$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.5701	0.5750	0.5525	0.5683	0.5385	0.5570	0.5921	0.5652	0.6180	0.5599
0.8	0.5725		0.5934		0.6195		0.5517		0.5374	
1.4		0.5361		0.5294		0.5140		0.5268		0.5149
1.7	0.5350		0.5242		0.5095		0.5507		0.5696	
2.0		0.5113		0.5050		0.4868		0.5008		0.4893
2.3	0.5056		0.4931		0.4850		0.5207		0.5389	
2.5	0.4930		0.4791		0.4749		0.5036		0.5211	
2.7	0.4882		0.4766		0.4710		0.4997		0.5176	
2.9	0.4784	0.4795	0.4696	0.4732	0.4656	0.4548	0.4899	0.4704	0.5062	0.4587
3.1	0.4703		0.4639		0.4617		0.4801		0.4957	
3.3	0.4703	0.4701	0.4642	0.4616	0.4620	0.4441	0.4783	0.4588	0.4925	0.4450
3.7	0.4532	0.4532	0.4493	0.4470	0.4482	0.4259	0.4580	0.4429	0.4687	0.4268
3.9	0.4486		0.4486		0.4491		0.4524		0.4600	
4.0		0.4522		0.4470		0.4237		0.4445		0.4268
4.1	0.4586	0.4605	0.4604	0.4556	0.4618	0.4329	0.4626	0.4536	0.4700	0.4351
4.1										
4.2	0.4619		0.4646		0.4666		0.4641		0.4712	
4.3	0.4672	0.4693	0.4690	0.4631	0.4725	0.4405	0.4678	0.4619	0.4751	0.4459
4.4	0.4691		0.4721		0.4744		0.4697		0.4763	
4.5	0.4737	0.4767	0.4774	0.4697	0.4796	0.4487	0.4747	0.4669	0.4804	0.4531
4.6	0.4753		0.4790		0.4818		0.4760		0.4808	
4.7	0.4797	0.4775	0.4814	0.4710	0.4853	0.4521	0.4797	0.4668	0.4832	0.4544
4.8	0.4803		0.4830		0.4861		0.4805		0.4850	
4.9	0.4802	0.4844	0.4835	0.4780	0.4855	0.4595	0.4810	0.4757	0.4855	0.4620
5.0	0.4820		0.4846		0.4873		0.4839		0.4885	
5.1	0.4832	0.4858	0.4847	0.4786	0.4878	0.4600	0.4843	0.4787	0.4895	0.4630
5.3	0.4844	0.4851	0.4855	0.4787	0.4883	0.4607	0.4857	0.4804	0.4911	0.4635
5.4	0.4861		0.4871		0.4900		0.4874		0.4926	
5.5		0.4837		0.4773		0.4603		0.4808		0.4639
5.6	0.4867		0.4893		0.4907		0.4875		0.4932	
5.7	0.4866	0.4871	0.4894		0.4912		0.4878		0.4940	0.4663
5.8	0.4870		0.4903		0.4903		0.4879		0.4955	
5.9	0.4889	0.4894	0.4908	0.4834	0.4928	0.4670	0.4879	0.4829	0.4944	0.4685
6.0	0.4901		0.4916		0.4927		0.4964		0.4966	
6.1	0.4914	0.4911	0.4929	0.4861	0.4947	0.4677	0.4969	0.4832	0.4989	0.4691
6.3	0.4897	0.4922	0.4910	0.4868	0.4932	0.4678	0.4953	0.4847	0.5007	0.4712

6.4	0.4904		0.4912		0.4931		0.4950		0.5034	
6.5	0.4941	0.4925	0.4935	0.4866	0.4946	0.4688	0.4937	0.4843	0.4995	0.4689
6.6										
6.7	0.4975	0.4935	0.4948	0.4878	0.4913	0.4720	0.4944	0.4854	0.4964	0.4775
6.8	0.4942		0.4945		0.4954		0.4937		0.5037	
6.9	0.4943	0.4984	0.4945	0.4863	0.4949	0.4743	0.4926	0.4893	0.5023	0.4758
7.0	0.4966		0.4969		0.4970		0.4947		0.5034	
7.3	0.4963		0.4961		0.4961		0.4941		0.5004	
7.4	0.4963		0.4979		0.4968		0.4950		0.5004	
7.5	0.4949	0.4942	0.4979	0.4894	0.4968	0.4743	0.4970	0.4953	0.5007	0.4800
7.7	0.4953	0.4939	0.4995	0.4961	0.5000	0.4812	0.5016	0.4951	0.5030	0.4819
7.8	0.4954		0.4987		0.5002		0.5009		0.5045	
7.9	0.4959		0.4985		0.5019		0.5016		0.5061	
8.0	0.4951		0.4973		0.5005		0.5007		0.5057	
8.2	0.4961		0.4984		0.4998		0.5027		0.5093	
8.3	0.4942		0.4973		0.4977		0.5016		0.5098	
8.4	0.4946		0.4994		0.4976		0.5041		0.5107	
8.5		0.4974	0.5080	0.4952	0.4966	0.4766	0.5037	0.4975	0.5070	0.4821
8.6	0.4938		0.5000		0.4970		0.5042		0.5111	
8.7	0.4934	0.4943	0.4986	0.4925	0.4947	0.4753	0.5028	0.4931	0.5096	0.4808
8.8	0.4958		0.4998		0.4952		0.5028		0.5089	
8.9	0.4941	0.4925	0.4982	0.4939	0.4939	0.4742	0.5023	0.4897	0.5105	0.4775
9.0	0.4946		0.4978		0.4938		0.5013		0.5091	
9.1	0.4946	0.4935	0.4973	0.4949	0.4927	0.4761	0.4993	0.4887	0.5077	0.4800
9.2	0.4955		0.4978		0.4935		0.4981		0.5064	
9.3	0.4961	0.4934	0.4976	0.4927	0.4931	0.4732	0.4960	0.4850	0.5051	0.4783
9.5	0.4988	0.4968	0.4975	0.4925	0.4919	0.4732	0.4931	0.4839	0.5023	0.4798
9.6	0.5016		0.4944		0.4911		0.4926		0.5016	
9.8	0.5033	0.4989	0.4926	0.4902	0.4893	0.4709	0.4892	0.4808	0.4990	0.4762
10.0	0.4967		0.4968		0.4934		0.4866		0.4838	
10.0	0.5034		0.4899		0.4876		0.4870		0.4961	
10.2	0.4998		0.4877		0.4837		0.4827		0.4917	
10.4	0.4998		0.4889		0.4850		0.4846		0.4927	
10.6	0.4955	0.4985	0.4874	0.4842	0.4842	0.4663	0.4854	0.4782	0.4911	0.4688
10.8	0.4928		0.4866		0.4840		0.4861		0.4908	
11.0			0.4881		0.4865		0.4879		0.4938	
11.2	0.4896		0.4886		0.4876		0.4893		0.4961	
11.4	0.4870	0.4874	0.4869	0.4807	0.4863	0.4675	0.4894	0.4819	0.4967	0.4679
11.6	0.4855		0.4865		0.4851		0.4879		0.4972	
11.8	0.4841		0.4841		0.4828		0.4877		0.4955	
12.0	0.4835		0.4833		0.4819		0.4861		0.4939	
12.2	0.4834	0.4832	0.4848	0.4774	0.4837	0.4651	0.4876	0.4820	0.4959	0.4679
12.4	0.4818		0.4846		0.4839		0.4883		0.4950	
12.6	0.4806		0.4835		0.4820		0.4894		0.4930	

Table V (Continued)

 $M_\infty = 1.1$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.5304	0.5305	0.5135	0.5350	0.4922	0.5196	0.5619	0.5323	0.5834	0.5223
0.8	0.5333		0.5574		0.5815		0.5218		0.5001	
1.4		0.5059		0.4975		0.4863		0.5023		0.4857
1.7	0.5041		0.4859		0.4758		0.5174		0.5433	
2.0		0.4801		0.4688		0.4553		0.4743		0.4621
2.3	0.4745		0.4577		0.4526		0.4870		0.5112	
2.5	0.4602	0.4626	0.4456		0.4409		0.4744		0.4953	
2.7	0.4529		0.4455		0.4389		0.4712		0.4882	
2.9	0.4443	0.4471	0.4399	0.4423	0.4347	0.4270	0.4648	0.4468	0.4781	0.4275
3.1	0.4384		0.4362		0.4317		0.4589		0.4670	
3.3	0.4380	0.4347	0.4332	0.4355	0.4320	0.4176	0.4534	0.4379	0.4664	0.4143
3.7	0.4254	0.4200	0.4241	0.4232	0.4232	0.3996	0.4393	0.4229	0.4451	0.3975
3.9	0.4206		0.4237		0.4242		0.4345		0.4356	
4.0		0.4222		0.4219		0.4020		0.4248		0.3974
4.1	0.4318	0.4319	0.4366	0.4298	0.4354	0.4111	0.4450	0.4316	0.4446	0.4047
4.1					0.4391		0.4464		0.4443	
4.2	0.4372		0.4409				0.4509	0.4404	0.4496	0.4152
4.3	0.4445	0.4393	0.4468	0.4383		0.4169	0.4522		0.4478	
4.4	0.4474		0.4515		0.4496		0.4561	0.4467	0.4523	0.4208
4.5	0.4537	0.4443	0.4550	0.4444	0.4568	0.4224	0.4559		0.4538	
4.6	0.4552		0.4560		0.4597		0.4576	0.4480	0.4625	0.4229
4.7	0.4572	0.4448	0.4571	0.4451	0.4630	0.4232	0.4584		0.4618	
4.8	0.4575		0.4588		0.4634		0.4578	0.4546	0.4618	0.4294
4.9	0.4566	0.4520	0.4582	0.4526	0.4618	0.4329	0.4591		0.4644	
5.0	0.4570		0.4593		0.4629		0.4592	0.4574	0.4648	0.4312
5.1	0.4576	0.4569	0.4596	0.4530	0.4619	0.4372	0.4619	0.4567	0.4661	0.4334
5.3	0.4585	0.4602	0.4596	0.4424	0.4628	0.4363	0.4652		0.4681	
5.4	0.4606		0.4607		0.4645			0.4566		0.4337
5.5		0.4609		0.4514		0.4365				
5.6	0.4606		0.4619		0.4641		0.4658		0.4686	
5.7	0.4598	0.4621	0.4620		0.4643	0.4384	0.4659		0.4687	
5.8	0.4589		0.4627		0.4654		0.4663		0.4692	
5.9	0.4605	0.4624	0.4625	0.4559	0.4646	0.4406	0.4664	0.4610	0.4706	0.4378
6.0	0.4599		0.4642		0.4665		0.4690		0.4729	
6.1	0.4626	0.4619	0.4655	0.4564	0.4679	0.4403	0.4705	0.4601	0.4722	0.4411
6.3	0.4625	0.4619	0.4654	0.4607	0.4686	0.4419	0.4691	0.4635	0.4708	0.4440

6.4	0.4620		0.4660		0.4695		0.4697		0.4710	
6.5	0.4643	0.4623	0.4657	0.4613	0.4749	0.4423	0.4689	0.4636	0.4753	0.4441
6.6										
6.7		0.4632		0.4652		0.4490	0.4739	0.4708		0.4498
6.8	0.4668		0.4680		0.4694		0.4727		0.4733	
6.9	0.4678	0.4633	0.4677	0.4674	0.4684	0.4467	0.4723	0.4705	0.4725	0.4480
7.0	0.4690		0.4680		0.4694		0.4738		0.4753	
7.3	0.4685		0.4664		0.4671		0.4722		0.4708	
7.4	0.4676		0.4660		0.4671		0.4704		0.4717	
7.5	0.4669	0.4700	0.4650	0.4603	0.4665	0.4494	0.4689	0.4645	0.4737	0.4445
7.7	0.4670	0.4682	0.4640	0.4584	0.4688	0.4481	0.4685	0.4637	0.4788	0.4475
7.8	0.4659		0.4635		0.4688		0.4674		0.4804	
7.9	0.4650		0.4632		0.4690		0.4672		0.4829	
8.0	0.4624		0.4622		0.4660		0.4649		0.4820	
8.2	0.4613		0.4632		0.4653		0.4640		0.4813	
8.3	0.4593		0.4619		0.4643		0.4622		0.4776	
8.4	0.4605		0.4632		0.4644		0.4633		0.4772	
8.5		0.4628		0.4586	0.4633	0.4439		0.4612	0.4749	0.4522
8.6	0.4631		0.4647		0.4665		0.4666		0.4760	
8.7	0.4635	0.4645	0.4648	0.4594	0.4659	0.4456	0.4689	0.4617	0.4740	0.4501
8.8	0.4647		0.4651		0.4717		0.4695		0.4742	
8.9	0.4641	0.4641	0.4679	0.4610	0.4686	0.4456	0.4731	0.4617	0.4736	0.4492
9.0	0.4644		0.4688		0.4689		0.4745		0.4731	
9.1	0.4644	0.4648	0.4699	0.4644	0.4690	0.4475	0.4744	0.4664	0.4722	0.4501
9.2	0.4653		0.4707		0.4696		0.4777		0.4721	
9.3	0.4661	0.4653	0.4714	0.4651	0.4696	0.4476	0.4782	0.4674	0.4714	0.4478
9.5	0.4670	0.4684	0.4714	0.4674	0.4692	0.4505	0.4768	0.4689	0.4715	0.4483
9.6	0.4679		0.4715		0.4684		0.4768		0.4736	
9.8	0.4685	0.4689	0.4709	0.4696	0.4689	0.4528	0.4763	0.4716	0.4751	0.4492
10.0							0.4765		0.4742	
10.0	0.4695		0.4698		0.4690		0.4749		0.4756	
10.2	0.4686		0.4668		0.4641		0.4705		0.4738	
10.4	0.4700		0.4684		0.4664		0.4718		0.4776	
10.6	0.4694	0.4701	0.4668	0.4617	0.4654	0.4538	0.4698	0.4659	0.4816	0.4548
10.8	0.4704		0.4664		0.4644		0.4693		0.4853	
11.0	0.4716		0.4679		0.4662		0.4713		0.4844	
11.2	0.4722		0.4667		0.4674		0.4703		0.4818	
11.4	0.4703	0.4684	0.4675	0.4605	0.4662	0.4512	0.4739	0.4655	0.4793	0.4535
11.6	0.4685		0.4665		0.4647		0.4734		0.4794	
11.8	0.4671		0.4652		0.4638		0.4720		0.4813	
12.0	0.4664		0.4652		0.4629		0.4702		0.4804	
12.2	0.4666	0.4677	0.4670	0.4623	0.4647	0.4478	0.4720	0.4654	0.4820	0.4509
12.4	0.4656		0.4674		0.4668		0.4725		0.4808	
12.6	0.4652		0.4660		0.4674		0.4724		0.4785	

Table V (Continued)
 $M_\infty = 1.15$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.5068	0.5082	0.4885	0.5098	0.4733	0.4954	0.5306	0.5081	0.5615	0.4974
0.8	0.5087		0.5325		0.5593		0.4873		0.4736	
1.4		0.4829		0.4793		0.4608		0.4785		0.4626
1.7	0.4747		0.4597		0.4462		0.4955		0.5204	
2.0		0.4559		0.4494		0.4330		0.4498		0.4333
2.3	0.4365		0.4364		0.4294		0.4640		0.4862	
2.5	0.4356	0.4354	0.4301	0.4325	0.4197		0.4499	0.4288	0.4692	
2.7	0.4338		0.4265		0.4156		0.4472		0.4641	
2.9	0.4281	0.4246	0.4195	0.4216	0.4119	0.4027	0.4389	0.4200	0.4556	0.4026
3.1	0.4204		0.4135		0.4095		0.4297		0.4460	
3.3	0.4177	0.4157	0.4115	0.4084	0.4130	0.3930	0.4256	0.4076	0.4426	0.3908
3.7	0.4010	0.4001	0.4016	0.3931	0.3992	0.3785	0.4090	0.3916	0.4204	0.3782
3.9	0.3948		0.3970		0.3991		0.4012		0.4097	
4.0		0.3972		0.3929		0.3715		0.3924		0.3747
4.1	0.4034	0.4029	0.4044	0.4002	0.4087	0.3767	0.4095	0.3983	0.4190	0.3801
4.1										
4.2	0.4057		0.4075		0.4113		0.4095		0.4171	
4.3	0.4119	0.4090	0.4118	0.4053	0.4126	0.3824	0.4122	0.4050	0.4198	0.3853
4.4	0.4143		0.4151		0.4173		0.4128		0.4209	
4.5	0.4184	0.4137	0.4205	0.4110	0.4215	0.3877	0.4163	0.4094	0.4251	0.3911
4.6	0.4181		0.4227		0.4221		0.4168		0.4255	
4.7	0.4226	0.4150	0.4243	0.4150	0.4250	0.3914	0.4209	0.4083	0.4259	0.3929
4.8	0.4223		0.4278		0.4266		0.4202		0.4282	
4.9	0.4227	0.4235	0.4289	0.4260	0.4274	0.4028	0.4207	0.4161	0.4276	0.4027
5.0	0.4253		0.4306		0.4300		0.4260		0.4300	
5.1	0.4272	0.4282	0.4318	0.4282	0.4320	0.4051	0.4280	0.4349	0.4297	0.4048
5.3	0.4318	0.4310	0.4335	0.4305	0.4354	0.4048	0.4280	0.4275	0.4301	0.4074
5.4	0.4333		0.4370		0.4376		0.4309		0.4321	
5.5		0.4306		0.4326		0.4119		0.4255		0.4105
5.6	0.4328		0.4406		0.4399		0.4354		0.4385	
5.7	0.4331	0.4348	0.4425	0.4356	0.4422	0.4135	0.4361		0.4414	0.4161
5.8	0.4345		0.4433		0.4434		0.4365		0.4433	
5.9	0.4352	0.4388	0.4445	0.4381	0.4439	0.4223	0.4363	0.4350	0.4432	0.4232
6.0	0.4352		0.4462		0.4391		0.4367		0.4439	
6.1	0.4379	0.4393	0.4481	0.4383	0.4421	0.4205	0.4397	0.4353	0.4453	0.4212
6.3	0.4372	0.4394	0.4499	0.4379	0.4430	0.4190	0.4406	0.4351	0.4496	0.4218

6.4	0.4385		0.4510		0.4461		0.4404		0.4508	
6.5	0.4430	0.4381	0.4459	0.4371	0.4489	0.4229	0.4419	0.4341	0.4453	0.4230
6.6	0.4521		0.4510		0.4527		0.4508		0.4501	
6.7	0.4459	0.4394	0.4432	0.4375	0.4457	0.4213	0.4456	0.4339	0.4468	0.4246
6.8	0.4419		0.4462		0.4469		0.4436		0.4510	
6.9	0.4420	0.4408	0.4438	0.4373	0.4455	0.4244	0.4436	0.4364	0.4496	0.4213
7.0	0.4462		0.4434		0.4482		0.4458		0.4508	
7.3	0.4473		0.4364		0.4487		0.4472		0.4556	
7.4	0.4480		0.4359		0.4480		0.4483		0.4565	
7.5	0.4469	0.4457	0.4352	0.4315	0.4471	0.4131	0.4509	0.4371	0.4560	0.4172
7.7	0.4467	0.4446	0.4373	0.4291	0.4468	0.4131	0.4525	0.4344	0.4558	0.4175
7.8	0.4444		0.4372		0.4457		0.4508		0.4537	
7.9	0.4428		0.4370		0.4460		0.4486		0.4534	
8.0	0.4391		0.4358		0.4434		0.4442		0.4514	
8.2	0.4352		0.4366		0.4437		0.4396		0.4498	
8.3	0.4315		0.4349		0.4418		0.4349		0.4453	
8.4	0.4316		0.4360		0.4422		0.4332		0.4440	
8.5	0.4307	0.4341		0.4296	0.4389	0.4167		0.4282	0.4418	0.4155
8.6	0.4319		0.4372		0.4405		0.4297		0.4405	
8.7	0.4310	0.4298	0.4368	0.4314	0.4386	0.4147	0.4285	0.4271	0.4361	0.4135
8.8	0.4335		0.4351		0.4387		0.4303		0.4391	
8.9	0.4322	0.4314	0.4399	0.4328	0.4383	0.4143	0.4308	0.4263	0.4362	0.4131
9.0	0.4325		0.4407		0.4374		0.4321		0.4359	
9.1	0.4329	0.4337	0.4405	0.4365	0.4386	0.4181	0.4312	0.4280	0.4356	0.4147
9.2	0.4335		0.4404		0.4383		0.4338		0.4372	
9.3	0.4345	0.4347	0.4399	0.4364	0.4374	0.4217	0.4359	0.4294	0.4398	0.4173
9.5	0.4354	0.4348	0.4384	0.4360	0.4354	0.4224	0.4382	0.4308	0.4441	0.4226
9.6	0.4376		0.4388		0.4366		0.4399		0.4455	
9.8	0.4367	0.4351	0.4407	0.4337	0.4353	0.4180	0.4403	0.4320	0.4505	0.4225
10.0	0.4393		0.4376		0.4405		0.4376		0.4377	
10.0	0.4356		0.4418		0.4342		0.4408		0.4494	
10.2	0.4338		0.4406		0.4308		0.4386		0.4469	
10.4	0.4384		0.4431		0.4367		0.4402		0.4509	
10.6	0.4385	0.4377	0.4427	0.4359	0.4376	0.4223	0.4386	0.4321	0.4487	0.4230
10.8	0.4392		0.4429		0.4365		0.4411		0.4466	
11.0	0.4428		0.4444		0.4403		0.4452		0.4492	
11.2	0.4435		0.4448		0.4452		0.4469		0.4547	
11.4	0.4441	0.4422	0.4441	0.4379	0.4429	0.4264	0.4465	0.4365	0.4543	0.4238
11.6	0.4438		0.4438		0.4408		0.4456		0.4523	
11.8	0.4440		0.4435		0.4383		0.4467		0.4505	
12.0	0.4434		0.4425		0.4413		0.4476		0.4527	
12.2	0.4419	0.4428	0.4451	0.4389	0.4425	0.4245	0.4485	0.4393	0.4567	0.4291
12.4	0.4405		0.4453		0.4410		0.4445		0.4574	
12.6	0.4432		0.4442		0.4403		0.4422		0.4532	

Table V (Continued)
 $M_{\infty}=1.2$

x/d	P/P _t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.4781	0.4779	0.4995	0.4754	0.5313	0.4653	0.4603	0.4798	0.4397	0.4596
0.8	0.4782		0.4599		0.4424		0.5009		0.5295	
1.4		0.4577		0.4511		0.4332		0.4507		0.4325
1.7	0.4503		0.4679		0.4957		0.4346		0.4164	
2.0		0.4352		0.4271		0.4118		0.4244		0.4057
2.3	0.4302		0.4446		0.4640		0.4135		0.4029	
2.5	0.4182	0.4152	0.4313	0.4075	0.4481		0.4014	0.4096	0.3933	
2.7	0.4120		0.4240		0.4434		0.3986		0.3919	
2.9	0.4036	0.4053	0.4160	0.3985	0.4367	0.3825	0.3914	0.3958	0.3868	0.3792
3.1	0.3954		0.4076		0.4249		0.3867		0.3825	
3.3	0.3940	0.3924	0.4053	0.3872	0.4211	0.3725	0.3862	0.3848	0.3839	0.3714
3.7	0.3790	0.3741	0.3864	0.3697	0.4028	0.3544	0.3736	0.3679	0.3740	0.3491
3.9	0.3698		0.3749		0.3903		0.3682		0.3730	
4.0		0.3750		0.3676		0.3502		0.3648		0.3443
4.1	0.3759	0.3820	0.3810	0.3736	0.3963	0.3553	0.3757	0.3718	0.3799	0.3510
4.1										
4.2	0.3797		0.3801		0.3931		0.3777		0.3817	
4.3	0.3854	0.3902	0.3838	0.3816	0.3940	0.3642		0.3784		0.3594
4.4	0.3884		0.3846		0.3934		0.3869		0.3859	
4.5	0.3943	0.3944	0.3905	0.3849	0.3962	0.3663		0.3834	0.3907	0.3612
4.6	0.3959		0.3934		0.3953		0.3938		0.3931	
4.7	0.3985	0.3904	0.3986	0.3841	0.3990	0.3633	0.3958	0.3836	0.3986	0.3609
4.8	0.3998		0.4003		0.4007		0.3965		0.3990	
4.9	0.3990	0.3983	0.3993	0.3911	0.4010	0.3707	0.3969	0.3916	0.3996	0.3693
5.0	0.4006		0.4008		0.4041		0.3990		0.4034	
5.1	0.4009	0.3993	0.4007	0.3930	0.4054	0.3720	0.3991	0.3906	0.4042	0.3738
5.3	0.4010	0.4018	0.3998	0.3931	0.4067	0.3757	0.4003	0.3924	0.4037	0.3735
5.4	0.4024		0.4022		0.4075		0.4034		0.4050	
5.5		0.4009		0.3920		0.3777		0.3912		0.3747
5.6	0.4034		0.4053		0.4082		0.4056		0.4068	
5.7	0.4042	0.4019	0.4049		0.4087		0.4052		0.4082	
5.8	0.4065		0.4045		0.4103		0.4064		0.4089	
5.9	0.4079	0.4031	0.4050	0.3984	0.4090	0.3815	0.4059	0.3973	0.4089	0.3789
6.0	0.4084		0.4053		0.4097		0.4060		0.4097	
6.1	0.4106	0.4059	0.4066	0.4010	0.4121	0.3835	0.4085	0.3979	0.4114	0.3794
6.3	0.4096	0.4062	0.4062	0.3996	0.4154	0.3834	0.4077	0.3980	0.4102	0.3809

6.4	0.4092		0.4069		0.4164		0.4085		0.4116	
6.5	0.4120	0.4100	0.4104	0.3992	0.4159	0.3844	0.4156	0.3997	0.4256	0.3869
6.6										
6.7		0.4126		0.4020		0.3859		0.4050		0.3885
6.8	0.4139		0.4157		0.4173		0.4113		0.4168	
6.9	0.4138	0.4126	0.4138	0.4098	0.4164	0.3904	0.4105	0.4069	0.4150	0.3876
7.0	0.4166		0.4145		0.4184		0.4117		0.4161	
7.3	0.4127		0.4155		0.4225		0.4110		0.4118	
7.4	0.4105		0.4137		0.4241		0.4110		0.4111	
7.5	0.4098	0.4138	0.4128	0.4046	0.4234	0.3939	0.4104	0.4041	0.4104	0.3881
7.7	0.4132	0.4162	0.4132	0.4076	0.4207	0.3904	0.4120	0.4068	0.4129	0.3913
7.8	0.4144		0.4117		0.4202		0.4115		0.4134	
7.9	0.4147		0.4122		0.4205		0.4116		0.4163	
8.0	0.4133		0.4110		0.4175		0.4109		0.4157	
8.2	0.4142		0.4153		0.4205		0.4131		0.4156	
8.3	0.4133		0.4155		0.4207		0.4125		0.4127	
8.4	0.4149		0.4165		0.4231		0.4145		0.4127	
8.5	0.4157	0.4146	0.4166	0.4091	0.4222	0.3951	0.4143	0.4067	0.4125	0.3901
8.6	0.4169		0.4180		0.4239		0.4149		0.4120	
8.7	0.4164	0.4139	0.4180	0.4085	0.4239	0.3928	0.4135	0.4069	0.4105	0.3897
8.8	0.4182		0.4185		0.4261		0.4158		0.4188	
8.9	0.4183	0.4127	0.4189	0.4064	0.4272	0.3930	0.4122	0.4073	0.4116	0.3899
9.0	0.4176		0.4180		0.4263		0.4112		0.4118	
9.1	0.4164	0.4151	0.4171	0.4077	0.4246	0.3968	0.4101	0.4055	0.4115	0.3891
9.2	0.4152		0.4166		0.4246		0.4101		0.4112	
9.3	0.4135	0.4162	0.4168	0.4073	0.4251	0.3940	0.4109	0.4052	0.4106	0.3909
9.5	0.4139	0.4153	0.4167	0.4112	0.4238	0.3955	0.4124	0.4048	0.4122	0.3924
9.6	0.4133		0.4162		0.4229		0.4127		0.4113	
9.8	0.4132	0.4110	0.4146	0.4060	0.4230	0.3946	0.4121	0.4069	0.4099	0.3915
10.0										
10.0	0.4137		0.4125		0.4245		0.4117		0.4087	
10.2	0.4131		0.4094		0.4209		0.4095		0.4069	
10.4	0.4142		0.4144		0.4198		0.4127		0.4110	
10.6	0.4138	0.4144	0.4129	0.4060	0.4175	0.3909	0.4121	0.4079	0.4087	0.3915
10.8	0.4151		0.4133		0.4178		0.4134		0.4073	
11.0	0.4171		0.4176		0.4218		0.4128		0.4082	
11.2	0.4166		0.4196		0.4225		0.4111		0.4079	
11.4	0.4123	0.4097	0.4171	0.4037	0.4267	0.3927	0.4084	0.4035	0.4089	0.3896
11.6	0.4087		0.4141		0.4247		0.4070		0.4083	
11.8	0.4063		0.4099		0.4207		0.4086		0.4059	
12.0	0.4081		0.4072		0.4188		0.4087		0.4038	
12.2	0.4119	0.4112	0.4080	0.4050	0.4180	0.3944	0.4107	0.4040	0.4047	0.3910
12.4	0.4133		0.4087		0.4171		0.4118		0.4050	
12.6	0.4137		0.4139		0.4146		0.4108		0.4049	

Table V (Continued)
 $M_\infty = 1.3$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.4209	0.4221	0.3979	0.4180	0.3903	0.4064	0.4378	0.4210	0.4685	0.4036
0.8	0.4194		0.4412		0.4743		0.3949		0.3841	
1.4		0.3997		0.3969		0.3868		0.3919		0.3790
1.7	0.3907		0.3748		0.3668		0.4120		0.4384	
2.0		0.3776		0.3694		0.3585		0.3702		0.3549
2.3	0.3720		0.3586		0.3583		0.3829		0.4104	
2.5	0.3692		0.3503	0.3559	0.3539		0.3727	0.3553	0.4004	
2.7	0.3692		0.3533		0.3488		0.3734		0.3958	
2.9	0.3588	0.3477	0.3469	0.3409	0.3419	0.3303	0.3714	0.3458	0.3856	0.3351
3.1	0.3466		0.3386		0.3370		0.3636		0.3771	
3.3	0.3435	0.3437	0.3385	0.3353	0.3352	0.3249	0.3583	0.3369	0.3729	0.3206
3.7	0.3277	0.3269	0.3239	0.3208	0.3264	0.3082	0.3383	0.3224	0.3544	0.3076
3.9	0.3247		0.3211		0.3272		0.3286		0.3431	
4.0		0.3275		0.3198		0.3018		0.3217		0.3055
4.1	0.3350	0.3319	0.3326	0.3257	0.3370	0.3053	0.3350	0.3239	0.3483	0.3077
4.1										
4.2	0.3378		0.3344		0.3396		0.3335		0.3471	
4.3	0.3419	0.3374	0.3383	0.3305	0.3391	0.3118	0.3362	0.3257	0.3499	0.3065
4.4	0.3426		0.3397		0.3470		0.3392		0.3525	
4.5	0.3460	0.3411	0.3472	0.3298	0.3508	0.3126	0.3451	0.3291	0.3564	0.3091
4.6	0.3473		0.3496		0.3509		0.3468		0.3557	
4.7	0.3507	0.3392	0.3507	0.3290	0.3521	0.3123	0.3496	0.3290	0.3557	0.3096
4.8	0.3507		0.3498		0.3525		0.3500		0.3562	
4.9	0.3478	0.3475	0.3485	0.3381	0.3517	0.3186	0.3500	0.3381	0.3546	0.3204
5.0	0.3475		0.3491		0.3545		0.3529		0.3559	
5.1	0.3483	0.3497	0.3492	0.3424	0.3565	0.3273	0.3538	0.3438	0.3559	0.3254
5.3	0.3508	0.3533	0.3493	0.3466	0.3578	0.3284	0.3513	0.3429	0.3558	0.3262
5.4	0.3516		0.3503		0.3591		0.3512		0.3569	
5.5		0.3514		0.3462		0.3290		0.3444		0.3258
5.6	0.3522		0.3518		0.3598		0.3527		0.3587	
5.7	0.3527		0.3524		0.3601		0.3518		0.3597	
5.8	0.3521		0.3535		0.3602		0.3500		0.3608	
5.9	0.3539	0.3587	0.3547	0.3494	0.3603	0.3377	0.3501	0.3544	0.3605	0.3366
6.0	0.3553		0.3568		0.3609		0.3554		0.3621	
6.1	0.3564	0.3561	0.3594	0.3473	0.3628	0.3395	0.3580	0.3521	0.3646	0.3398
6.3	0.3554	0.3540	0.3574	0.3477	0.3618	0.3358	0.3568	0.3494	0.3662	0.3395

6.4	0.3551		0.3564		0.3631		0.3581		0.3666	
6.5	0.3575	0.3521	0.3556	0.3470	0.3576	0.3330	0.3585	0.3484	0.3638	0.3378
6.6										
6.7	0.3639	0.3522	0.3587	0.3473	0.3595	0.3318	0.3659	0.3471	0.3721	0.3342
6.8	0.3559		0.3520		0.3584		0.3563		0.3678	
6.9	0.3537	0.3529	0.3506	0.3436	0.3569	0.3323	0.3542	0.3464	0.3640	0.3330
7.0	0.3537		0.3517		0.3578		0.3548		0.3643	
7.3	0.3505		0.3520		0.3569		0.3512		0.3630	
7.4	0.3503		0.3536		0.3590		0.3524		0.3600	
7.5	0.3523	0.3570	0.3549	0.3508	0.3608	0.3387	0.3531	0.3498	0.3590	0.3387
7.7	0.3588	0.3552	0.3563	0.3519	0.3684	0.3377	0.3577	0.3503	0.3646	0.3374
7.8	0.3600		0.3550		0.3682		0.3600		0.3673	
7.9	0.3607		0.3547		0.3662		0.3625		0.3703	
8.0	0.3584		0.3534		0.3609		0.3591		0.3687	
8.2	0.3567		0.3548		0.3586		0.3570		0.3671	
8.3	0.3541		0.3551		0.3570		0.3559		0.3650	
8.4	0.3549		0.3588		0.3592		0.3582		0.3667	
8.5		0.3597	0.3573	0.3481	0.3604	0.3397	0.3584	0.3530	0.3664	0.3413
8.6	0.3556		0.3566		0.3630		0.3600		0.3680	
8.7	0.3543	0.3558	0.3553	0.3483	0.3624	0.3374	0.3581	0.3523	0.3670	0.3397
8.8	0.3559		0.3557		0.3591		0.3574		0.3664	
8.9	0.3566	0.3538	0.3557	0.3508	0.3625	0.3381	0.3575	0.3519	0.3694	0.3402
9.0	0.3600		0.3559		0.3610		0.3565		0.3696	
9.1	0.3595	0.3571	0.3554	0.3501	0.3581	0.3365	0.3547	0.3517	0.3694	0.3418
9.2	0.3587		0.3574		0.3607		0.3555		0.3687	
9.3	0.3580	0.3573	0.3581	0.3498	0.3612	0.3378	0.3558	0.3493	0.3685	0.3407
9.5	0.3588	0.3593	0.3614	0.3536	0.3633	0.3444	0.3615	0.3518	0.3693	0.3416
9.6	0.3641		0.3626		0.3659		0.3656		0.3709	
9.8	0.3679	0.3604	0.3636	0.3554	0.3683	0.3453	0.3652	0.3539	0.3717	0.3429
10.0	0.3677		0.3652		0.3654		0.3670		0.3734	
10.0	0.3661		0.3623		0.3643		0.3661		0.3792	
10.2	0.3600		0.3581		0.3596		0.3654		0.3741	
10.4	0.3600		0.3597		0.3612		0.3681		0.3752	
10.6	0.3593	0.3648	0.3601	0.3602	0.3596	0.3501	0.3624	0.3613	0.3733	0.3445
10.8	0.3620		0.3619		0.3644		0.3598		0.3734	
11.0			0.3635		0.3678		0.3623		0.3728	
11.2	0.3660		0.3676		0.3666		0.3681		0.3764	
11.4	0.3644	0.3621	0.3676	0.3556	0.3653	0.3467	0.3697	0.3559	0.3753	0.3458
11.6	0.3679		0.3664		0.3644		0.3690		0.3786	
11.8	0.3693		0.3633		0.3621		0.3657		0.3766	
12.0	0.3655		0.3620		0.3616		0.3681		0.3770	
12.2	0.3638	0.3659	0.3617	0.3579	0.3648	0.3467	0.3707	0.3576	0.3769	0.3459
12.4	0.3622		0.3642		0.3650		0.3684		0.3748	
12.6	0.3613		0.3626		0.3618		0.3648		0.3760	

Table V (Continued)
 $M_{\infty} = 1.4$

x/d	P/P_t									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.3725	0.3717	0.3554	0.3754	0.3418	0.3576	0.3997	0.3726	0.4315	0.3598
0.8	0.3750		0.4027		0.4259		0.3574		0.3437	
1.4		0.3556		0.3524		0.3349		0.3516		0.3400
1.7	0.3458		0.3316		0.3168		0.3721		0.3941	
2.0		0.3308		0.3268		0.3098		0.3335		0.3156
2.3	0.3263		0.3140		0.3097		0.3496		0.3757	
2.5	0.3172	0.3136	0.3031	0.3092	0.3020	0.2967	0.3353	0.3093	0.3624	0.2975
2.7	0.3098		0.3025		0.2980		0.3250		0.3547	
2.9	0.3031	0.3043	0.2994	0.2976	0.2928	0.2836	0.3194	0.2981	0.3415	0.2863
3.1	0.2952		0.2942		0.2889		0.3098		0.3307	
3.3	0.2928	0.2945	0.2914	0.2927	0.2888	0.2793	0.3026	0.2920	0.3221	0.2741
3.7	0.2868	0.2818	0.2838	0.2804	0.2797	0.2607	0.2908	0.2772	0.3036	0.2598
3.9	0.2821		0.2799		0.2769		0.2857		0.2979	
4.0		0.2820		0.2733		0.2550		0.2734		0.2529
4.1	0.2882	0.2862	0.2858	0.2788	0.2858	0.2572	0.2894	0.2771	0.3038	0.2581
4.1										
4.2	0.2879		0.2871		0.2869		0.2906		0.3018	
4.3	0.2938	0.2871		0.2814		0.2609	0.2943	0.2813	0.3015	0.2618
4.4	0.2895		0.2903		0.2929		0.2957		0.2998	
4.5	0.2928	0.2904	0.2938	0.2810	0.2973	0.2624	0.2998	0.2839	0.3028	0.2634
4.6	0.2932		0.2936		0.2982		0.2995		0.3027	
4.7	0.2954	0.2876	0.2978	0.2813	0.3010	0.2605	0.2994	0.2827	0.3039	0.2603
4.8	0.2949		0.2973		0.3008		0.2997		0.3046	
4.9	0.2932	0.3018	0.2974	0.2940	0.3032	0.2744	0.2986	0.2951	0.3032	0.2695
5.0	0.2943		0.3007		0.3065		0.3007		0.3053	
5.1	0.2958	0.3029	0.3035	0.2962	0.3086	0.2786	0.3010	0.2995	0.3076	0.2728
5.3	0.3021	0.2990	0.3049	0.2955	0.3081	0.2715	0.3002	0.2959	0.3095	0.2743
5.4	0.3048		0.3058		0.3087		0.3025		0.3099	
5.5		0.2953		0.2923		0.2735		0.2922		0.2772
5.6	0.3048		0.3048		0.3079		0.3068		0.3101	
5.7	0.3034	0.2982	0.3049		0.3089	0.2766	0.3055		0.3112	0.2796
5.8	0.3028		0.3060		0.3103		0.3049		0.3126	
5.9	0.3029	0.3048	0.3080	0.2963	0.3115	0.2812	0.3037	0.2958	0.3144	0.2815
6.0	0.3025		0.3085		0.3126		0.3028		0.3154	
6.1	0.3045	0.3055	0.3110	0.2972	0.3150	0.2812	0.3049	0.2979	0.3152	0.2816
6.3	0.3032	0.3031	0.3082	0.2986	0.3130	0.2827	0.3082	0.2982	0.3105	0.2794

6.4	0.3049		0.3077		0.3126		0.3097		0.3110	
6.5		0.2995		0.2981		0.2813	0.3091	0.2985	0.3107	0.2808
6.6										
6.7		0.3012		0.2979		0.2819		0.2989		0.2834
6.8	0.3061		0.3056		0.3110		0.3076		0.3128	
6.9	0.3062	0.3031	0.3055	0.3019	0.3107	0.2830	0.3059	0.3018	0.3146	0.2852
7.0	0.3072		0.3084		0.3117		0.3065		0.3183	
7.3	0.3059		0.3079		0.3120		0.3073		0.3169	
7.4	0.3061		0.3093		0.3114		0.3077		0.3150	
7.5	0.3071	0.3060	0.3103	0.3009	0.3112	0.2867	0.3097	0.3020	0.3145	0.2888
7.7	0.3081	0.3084	0.3129	0.3042	0.3143	0.2879	0.3137	0.3035	0.3156	0.2885
7.8	0.3095		0.3129		0.3146		0.3137		0.3171	
7.9	0.3115		0.3129		0.3162		0.3137		0.3193	
8.0	0.3101		0.3115		0.3142		0.3105		0.3169	
8.2	0.3106		0.3113		0.3145		0.3125		0.3197	
8.3	0.3093		0.3095		0.3114		0.3060		0.3191	
8.4	0.3115		0.3110		0.3119		0.3136		0.3205	
8.5	0.3130	0.3163	0.3121	0.3130	0.3114	0.2924	0.3167	0.3138	0.3197	0.2945
8.6	0.3144		0.3137		0.3136		0.3186		0.3217	
8.7	0.3132	0.3139	0.3134	0.3068	0.3121	0.2984	0.3170	0.3103	0.3215	0.3057
8.8	0.3166		0.3237		0.3362		0.3180		0.3219	
8.9	0.3140	0.3126	0.3131	0.3069	0.3148	0.2951	0.3177	0.3101	0.3229	0.2988
9.0	0.3133		0.3122		0.3150		0.3181		0.3260	
9.1	0.3124	0.3120	0.3121	0.3065	0.3133	0.2930	0.3184	0.3070	0.3262	0.2958
9.2	0.3106		0.3108		0.3139		0.3176		0.3267	
9.3	0.3109	0.3079	0.3103	0.3028	0.3126	0.2895	0.3168	0.3033	0.3294	0.2917
9.5	0.3094	0.3055	0.3097	0.3016	0.3106	0.2894	0.3127	0.3009	0.3268	0.2891
9.6	0.3081		0.3097		0.3081		0.3115		0.3256	
9.8	0.3064	0.3036	0.3094	0.3025	0.3059	0.2890	0.3086	0.3008	0.3219	0.2884
10.0										
10.0	0.3049		0.3087		0.3052		0.3067		0.3179	
10.2	0.3035		0.3086		0.3034		0.3029		0.3111	
10.4	0.3121		0.3120		0.3148		0.3112		0.3123	
10.6	0.3111	0.3091	0.3090	0.3038	0.3109	0.2896	0.3134	0.3054	0.3121	0.2945
10.8	0.3098		0.3094		0.3082		0.3136		0.3172	
11.2	0.3096		0.3126		0.3098		0.3153		0.3262	
11.4	0.3066	0.3053	0.3104	0.3036	0.3071	0.2929	0.3124	0.3037	0.3227	0.2899
11.6	0.3112		0.3109		0.3067		0.3138		0.3219	
11.8	0.3088		0.3110		0.3034		0.3069		0.3191	
12.0	0.3078		0.3154		0.3015		0.3134		0.3165	
12.2	0.3142	0.3182	0.3184	0.3149	0.3173	0.2933	0.3171	0.3151	0.3160	0.2952
12.4	0.3215		0.3188		0.3142		0.3287		0.3162	
12.6	0.3209		0.3182		0.3159		0.3277		0.3237	

Table V (Continued)
M_∞=1.5

x/d	P/P _i									
	α=0	ψ=0	α=4	ψ=4	α=8	ψ=8	α=-4	ψ=-4	α=-8	ψ=-8
0.8	0.3258	0.3238	0.3067	0.3286	0.2898	0.3127	0.3495	0.3217	0.3897	0.3210
0.8	0.3245		0.3472		0.3784		0.3067		0.2991	
1.4		0.3121		0.3103		0.2938		0.3151		0.2995
1.7	0.3000		0.2863		0.2764		0.3316		0.3525	
2.0		0.2896		0.2907		0.2732		0.2879		0.2743
2.3	0.2875		0.2713		0.2687		0.3053		0.3314	
2.5	0.2820	0.2831	0.2640	0.2678	0.2598	0.2527	0.2907	0.2698	0.3179	0.2568
2.7	0.2774		0.2629		0.2598		0.2869		0.3117	
2.9	0.2681	0.2707	0.2586	0.2599	0.2571	0.2477	0.2834	0.2592	0.3049	0.2475
3.1	0.2613		0.2520		0.2536		0.2783		0.2973	
3.3	0.2576	0.2586	0.2539	0.2519	0.2528	0.2359	0.2769	0.2522	0.2895	0.2394
3.7	0.2474	0.2472	0.2461	0.2399	0.2443	0.2235	0.2565	0.2428	0.2729	0.2263
3.9	0.2443		0.2433		0.2391		0.2505		0.2634	
4.0		0.2448		0.2374		0.2196		0.2387		0.2224
4.1	0.2502	0.2485	0.2461	0.2407	0.2454	0.2223	0.2529	0.2414	0.2706	0.2261
4.1										
4.2	0.2509		0.2492		0.2468		0.2524		0.2699	
4.3	0.2534	0.2490	0.2522	0.2443	0.2504	0.2227	0.2543	0.2449	0.2711	0.2294
4.4	0.2542		0.2523		0.2499		0.2531		0.2698	
4.5	0.2568	0.2500	0.2556	0.2453	0.2545	0.2221	0.2568	0.2473	0.2720	0.2299
4.6	0.2562		0.2563		0.2557		0.2580		0.2715	
4.7	0.2584	0.2480	0.2592	0.2429	0.2581	0.2214	0.2652	0.2436	0.2734	0.2259
4.8	0.2599		0.2592		0.2585		0.2621		0.2721	
4.9	0.2595	0.2565	0.2578	0.2499	0.2578	0.2301	0.2617	0.2515	0.2688	0.2319
5.0	0.2606		0.2583		0.2594		0.2635		0.2702	
5.1	0.2603	0.2584	0.2586	0.2513	0.2606	0.2308	0.2634	0.2510	0.2718	0.2316
5.3	0.2583	0.2595	0.2584	0.2502	0.2618	0.2284	0.2594	0.2501	0.2699	0.2155
5.4	0.2588		0.2592		0.2639		0.2595		0.2697	
5.5		0.2601		0.2487		0.2285		0.2497		0.2337
5.6	0.2598		0.2599		0.2667		0.2611		0.2692	
5.7	0.2599	0.2632	0.2600		0.2696	0.2326	0.2619	0.2546	0.2696	0.2364
5.8	0.2597		0.2607		0.2690		0.2626		0.2700	
5.9	0.2606	0.2642	0.2620	0.2554	0.2688	0.2401	0.2641	0.2557	0.2695	0.2385
6.0	0.2603		0.2633		0.2686		0.2629		0.2680	
6.1	0.2639	0.2629	0.2676	0.2553	0.2714	0.2423	0.2645	0.2563	0.2701	0.2411
6.3	0.2629	0.2637	0.2670	0.2576	0.2690	0.2421	0.2619	0.2586	0.2727	0.2449

6.4	0.2622		0.2673		0.2708		0.2633		0.2747	
6.5	0.2637	0.2621	0.2667	0.2607	0.2685	0.2425	0.2692	0.2584	0.2749	0.2447
6.6										
6.7	0.2686	0.2622	0.2687	0.2572	0.2681	0.2412	0.2743	0.2575	0.2800	0.2471
6.8	0.2662		0.2677		0.2697		0.2647		0.2740	
6.9	0.2675	0.2674	0.2670	0.2627	0.2688	0.2457	0.2634	0.2593	0.2735	0.2486
7.0	0.2710		0.2687		0.2705		0.2679		0.2758	
7.3	0.2665		0.2669		0.2666		0.2645		0.2747	
7.4	0.2663		0.2677		0.2682		0.2636		0.2738	
7.5	0.2676	0.2688	0.2688	0.2618	0.2700	0.2447	0.2649	0.2648	0.2743	0.2478
7.7	0.2718	0.2668	0.2675	0.2595	0.2713	0.2424	0.2714	0.2638	0.2769	0.2459
7.8	0.2716		0.2661		0.2697		0.2729		0.2782	
7.9	0.2704		0.2654		0.2704		0.2747		0.2816	
8.0	0.2667		0.2635		0.2677		0.2729		0.2805	
8.2	0.2649		0.2644		0.2693		0.2714		0.2823	
8.3	0.2624		0.2639		0.2681		0.2684		0.2796	
8.4	0.2628		0.2665		0.2690		0.2695		0.2796	
8.5		0.2668	0.2668	0.2608	0.2654	0.2469	0.2678	0.2621	0.2778	0.2491
8.6	0.2631		0.2684		0.2710		0.2675		0.2782	
8.7	0.2639	0.2636	0.2676	0.2616	0.2691	0.2470	0.2667	0.2606	0.2765	0.2484
8.8	0.2667		0.2688		0.2690		0.2669		0.2771	
8.9	0.2666	0.2661	0.2699	0.2618	0.2692	0.2473	0.2675	0.2590	0.2769	0.2497
9.0	0.2677		0.2692		0.2685		0.2686		0.2778	
9.1	0.2696	0.2646	0.2639	0.2606	0.2693	0.2470	0.2694	0.2589	0.2791	0.2488
9.2	0.2703		0.2685		0.2687		0.2683		0.2785	
9.3	0.2710	0.2635	0.2693	0.2602	0.2695	0.2448	0.2687	0.2575	0.2780	0.2460
9.5	0.2716	0.2647	0.2704	0.2593	0.2684	0.2454	0.2694	0.2569	0.2780	0.2455
9.6	0.2713		0.2704		0.2677		0.2687		0.2774	
9.8	0.2705	0.2676	0.2705	0.2606	0.2678	0.2486	0.2703	0.2605	0.2769	0.2488
10.0	0.2723		0.2729		0.2720		0.2763		0.2823	
10.0	0.2692		0.2698		0.2675		0.2727		0.2783	
10.2	0.2677		0.2667		0.2645		0.2713		0.2764	
10.4	0.2708		0.2701		0.2685		0.2733		0.2834	
10.6	0.2703	0.2755	0.2689	0.2672	0.2667	0.2525	0.2699	0.2679	0.2805	0.2550
10.8	0.2708		0.2711		0.2651		0.2720		0.2812	
11.0	0.2724		0.2735		0.2656		0.2753		0.2814	
11.2	0.2738		0.2744		0.2684		0.2776		0.2843	
11.4	0.2743	0.2694	0.2711	0.2641	0.2694	0.2529	0.2780	0.2667	0.2840	0.2551
11.6	0.2712		0.2689		0.2680		0.2755		0.2870	
11.8	0.2684		0.2658		0.2645		0.2722		0.2836	
12.0	0.2659		0.2650		0.2619		0.2708		0.2814	
12.2	0.2640	0.2739	0.2668	0.2663	0.2608	0.2490	0.2702	0.2616	0.2794	0.2515
12.4	0.2629		0.2675		0.2594		0.2684		0.2780	
12.6	0.2678		0.2704		0.2601		0.2644		0.2727	

Table V (Concluded)
 $M_\infty = 1.6$

x/d	P/P_1									
	$\alpha=0$	$\psi=0$	$\alpha=4$	$\psi=4$	$\alpha=8$	$\psi=8$	$\alpha=-4$	$\psi=-4$	$\alpha=-8$	$\psi=-8$
0.8	0.3018	0.2965	0.2794	0.2905	0.2653	0.2826	0.3237	0.2906	0.3511	0.2811
0.8	0.3008		0.3224		0.3495		0.2807		0.2661	
1.4		0.2730		0.2689		0.2558		0.2685		0.2558
1.7	0.2611		0.2484		0.2385		0.2885		0.3107	
2.0		0.2474		0.2444		0.2313		0.2487		0.2281
2.3	0.2483		0.2343		0.2277		0.2640		0.2844	
2.5	0.2389	0.2303	0.2232	0.2286	0.2208	0.2114	0.2540	0.2267	0.2735	0.2131
2.7	0.2337		0.2205		0.2198		0.2498		0.2664	
2.9	0.2285	0.2230	0.2194	0.2308	0.2151	0.2085	0.2442	0.2235	0.2630	0.2035
3.1	0.2225		0.2163		0.2094		0.2365		0.2622	
3.3	0.2196	0.2294	0.2169	0.2165	0.2092	0.2044	0.2322	0.2216	0.2553	0.2096
3.7	0.2167	0.2140	0.2130	0.2054	0.2051	0.1874	0.2253	0.2134	0.2337	0.1796
3.9	0.2078		0.2053		0.2010		0.2173		0.2266	
4.0		0.2105		0.2011		0.1891		0.2073		0.1871
4.1	0.2122	0.2146	0.2087	0.2052	0.2046	0.1910	0.2213	0.2092	0.2287	0.1879
4.1										
4.2	0.2136		0.2094		0.2088		0.2213		0.2324	
4.3	0.2140	0.2144	0.2125	0.2095	0.2116	0.1927	0.2230	0.2098	0.2340	0.1919
4.4	0.2119		0.2132		0.2182		0.2222		0.2323	
4.5	0.2135	0.2127	0.2160	0.2152	0.2216	0.1878	0.2246	0.2139	0.2333	0.1903
4.6	0.2141		0.2174		0.2222		0.2232		0.2325	
4.7	0.2183	0.2112	0.2199	0.2137	0.2210	0.1833	0.2215	0.2117	0.2321	0.1839
4.8	0.2202		0.2210		0.2230		0.2225		0.2348	
4.9	0.2215	0.2236	0.2210	0.2194	0.2231	0.1930	0.2216	0.2171	0.2347	0.1922
5.0	0.2228		0.2223		0.2241		0.2221		0.2343	
5.1	0.2241	0.2283	0.2234	0.2159	0.2249	0.1915	0.2222	0.2147	0.2331	0.1926
5.3	0.2257	0.2265	0.2237	0.2138	0.2253	0.1669	0.2263	0.2144	0.2307	0.1947
5.4	0.2267		0.2253		0.2281		0.2278		0.2345	
5.5		0.2254		0.2122				0.2136		
5.6	0.2247		0.2270		0.2324		0.2287		0.2346	
5.7	0.2239	0.2248	0.2281	0.2173	0.2331	0.1960	0.2314	0.2164	0.2360	0.1974
5.8	0.2242		0.2277		0.2340		0.2323		0.2347	
5.9	0.2262	0.2267	0.2295	0.2217	0.2353	0.2034	0.2312	0.2219	0.2335	0.1996
6.0	0.2263		0.2298		0.2363		0.2303		0.2316	
6.1	0.2286	0.2263	0.2339	0.2196	0.2382	0.2021	0.2330	0.2245	0.2325	0.2024
6.3	0.2272	0.2290	0.2332	0.2222	0.2360	0.2018	0.2300	0.2265	0.2305	0.2040

6.4	0.2275		0.2375		0.2363		0.2291		0.2333	
6.5	0.2306	0.2298	0.2378	0.2227	0.2360	0.2046	0.2292	0.2258	0.2324	0.2071
6.6										
6.7		0.2278		0.2229		0.2080		0.2234		0.2087
6.8	0.2330		0.2320		0.2360		0.2311		0.2360	
6.9	0.2321	0.2305	0.2322	0.2248	0.2347	0.2134	0.2312	0.2287	0.2370	0.2115
7.0					0.2361		0.2351		0.2393	
7.3	0.2317		0.2333		0.2323		0.2348		0.2378	
7.4	0.2295		0.2338		0.2326		0.2336		0.2375	
7.5	0.2288	0.2280	0.2330	0.2242	0.2309	0.2106	0.2341	0.2233	0.2375	0.2128
7.7	0.2293	0.2388	0.2323	0.2242	0.2308	0.2096	0.2333	0.2248	0.2392	0.2110
7.8	0.2287		0.2308		0.2308		0.2313		0.2402	
7.9	0.2294		0.2300		0.2335		0.2315		0.2407	
8.0	0.2302		0.2285		0.2321		0.2291		0.2370	
8.2	0.2290		0.2308		0.2321		0.2291		0.2370	
8.3	0.2285		0.2283		0.2286				0.2348	
8.4	0.2319		0.2297		0.2300		0.2305		0.2362	
8.5	0.2317	0.2313	0.2283	0.2253	0.2271	0.2113	0.2318	0.2277	0.2420	0.2109
8.6	0.2324		0.2293		0.2298		0.2340		0.2385	
8.7	0.2310	0.2307	0.2286	0.2255	0.2289	0.2105	0.2341	0.2264	0.2373	0.2127
8.8	0.2317		0.2310		0.2306		0.2367		0.2392	
8.9	0.2317	0.2317	0.2322	0.2245	0.2320	0.2120	0.2362	0.2258	0.2397	0.2109
9.0	0.2294		0.2292		0.2325		0.2357		0.2397	
9.1	0.2317	0.2301	0.2306	0.2236	0.2326	0.2095	0.2377	0.2261	0.2380	0.2106
9.2	0.2301		0.2301		0.2302		0.2383		0.2393	
9.3	0.2298	0.2306	0.2303	0.2254	0.2301	0.2093	0.2387	0.2256	0.2402	0.2096
9.5	0.2280	0.2316	0.2325	0.2248	0.2326	0.2164	0.2355	0.2284	0.2402	0.2122
9.6	0.2290		0.2322		0.2291		0.2345		0.2405	
9.8	0.2318	0.2305	0.2341	0.2270	0.2317	0.2148	0.2336	0.2287	0.2427	0.2159
10.0										
10.0	0.2327		0.2323		0.2282		0.2328		0.2415	
10.2	0.2292		0.2287		0.2208		0.2303		0.2365	
10.4	0.2316		0.2302		0.2240		0.2367		0.2420	
10.6	0.2277	0.2318	0.2272	0.2240	0.2211	0.2109	0.2317	0.2275	0.2415	0.2138
10.8	0.2274		0.2282		0.2235		0.2310		0.2415	
11.0	0.2302		0.2294		0.2258		0.2312		0.2367	
11.2	0.2320		0.2283		0.2257		0.2353		0.2360	
11.4	0.2308	0.2261	0.2299	0.2215	0.2267	0.2075	0.2370	0.2240	0.2385	0.2112
11.6	0.2288		0.2309		0.2267		0.2344		0.2425	
11.8	0.2274		0.2312		0.2265		0.2305		0.2420	
12.0	0.2294		0.2321		0.2275		0.2314		0.2427	
12.2	0.2312	0.2300	0.2335	0.2255	0.2263	0.2132	0.2305	0.2257	0.2400	0.2102
12.4	0.2327		0.2340		0.2276		0.2320		0.2372	
12.6	0.2329		0.2330		0.2276		0.2330		0.2368	

UNCLASSIFIED

Security Classification

DOCUMENT CONTROL DATA - R & D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

1. ORIGINATING ACTIVITY (Corporate author)

Arnold Engineering Development Center
ARO, Inc., Operating Contractor
Arnold Air Force Station, Tennessee

2a. REPORT SECURITY CLASSIFICATION

UNCLASSIFIED

2b. GROUP

N/A

3. REPORT TITLE

STATIC PRESSURE DISTRIBUTIONS ON VARIOUS BODIES OF REVOLUTION AT
MACH NUMBERS FROM 0.60 TO 1.60

4. DESCRIPTIVE NOTES (Type of report and inclusive dates)

Final Report September 27 to 30, 1967

This document has been approved for public release
its distribution is unlimited. Per A.F.
letter dated 6 Feb 1975.
Signed by William O.
Cde.

5. AUTHOR(S) (First name, middle initial, last name)

M. S. Hartley and J. L. Jacocks, ARO, Inc.

6. REPORT DATE

March 1968

7a. TOTAL NO. OF PAGES

199

7b. NO. OF REFS

3

8a. CONTRACT OR GRANT NO.

AF 40(600)-1200

9a. ORIGINATOR'S REPORT NUMBER(S)

AEDC-TR-68-37

9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report)

N/A

10. DISTRIBUTION STATEMENT

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11. SUPPLEMENTARY NOTES

Available in DDC.

12. SPONSORING MILITARY ACTIVITY

Arnold Engineering Development
Center (AETS), Air Force Systems
Command, Arnold AF Station, Tenn.

13. ABSTRACT

An investigation was conducted in the Propulsion Wind Tunnel, Transonic (16T) to determine the static pressure distributions on various bodies of revolution. The nose shapes tested were 20-, 40-, and 60-deg (total-angle) cones, an ellipse, and an ogive. The data were obtained for various angles of pitch and yaw at Mach numbers from 0.60 to 1.60. Primarily these data will be used for the test section calibration of a new transonic wind tunnel with a 4-ft-square test section; consequently, the models were designed for 1-percent blockage in the 4-ft wind tunnel, making them 0.0625-percent blockage in Tunnel 16T. Despite their relatively small size in 16T, some wall effects were experienced between Mach numbers 0.95 and 1.05. Both above and below this Mach number range the data were found to be relatively free of wall effects. In the range from $M = 0.95$ to 1.05 attempts were made to reduce the wall effects by varying wall angle and test section pressure; however, no improvement was noted.

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DD FORM 1 NOV 65 1473

UNCLASSIFIED

Security Classification

14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
pressure distributions, static transonic flow						
1. Bodies of revolution						
2. " " " "						
1 - 2						